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OF
WHITMAN COLLEGE
1912



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CATALOGUE

OF

WHITMAN COLLEGE

1912



WALLA WALLA, WASHINGTON
PUBLISHED BY THE COLLEGE
APRIL, 1912

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COLLEGE CALENDAR

1911

Sept. 20, Wednesday, 10 a. m.,	First semester begins
Dec. 20, Wednesday, 6 p. m.,	Christmas recess begins

1912

Jan. 3, Wednesday, 8 a. m.,	Christmas recess ends
Jan. 27-Feb. 3,	Semi-annual examinations
Feb. 6, Tuesday,	Registration for second semester
Feb. 7, Wednesday, 10 a. m.,	Second semester begins
Feb. 16, Thursday,	Pioneer Day
Apr. 1, Monday,	Last day for submitting provisional Commencement parts
Apr. 3, Wednesday, 6 p. m.,	Easter recess begins
Apr. 10, Wednesday, 8 a. m.	Easter recess ends
May 1, Wednesday,	Last day for selecting major studies
May 30, Thursday,	Memorial Day, a holiday
June 10-14,	Semi-annual examinations
June 15, Saturday,	Annual pilgrimage to Wailatpu; college picnic
June 16, Sunday, 11 a. m.,	Baccalaureate service
5 p. m.,	Alumni prayer meeting
8 p. m.,	Sermon to the Christian Associations
June 17, Monday, 4 p. m.,	Athletic contests
8 p. m.,	Oratorical contest
June 18, Tuesday, 10 a. m.,	Semi-annual meeting of the Board of Overseers
3:30 p. m.,	Class Day exercises
6 p. m.,	Annual College Dinner
June 19, Wednesday, 4 p. m.,	Thirtieth annual Commencement
6 p. m.,	Alumni Dinner
July 31, Wednesday,	Fiscal year ends
Sept. 16-17, Monday-Tuesday,	Registration and classification
Sept. 17, Tuesday, 8 p. m.,	Convocation
Sept. 18, Wednesday, 10 a. m.,	First semester begins
Oct. 16, Monday,	Last day for application for final honors in major study (see p. 51)

Nov. 15, Friday,	Last day for application for candidacy for Master's degree (see p. 49)
Nov. 19, Wednesday,	Semi-annual meeting of the Board of Overseers
Nov. 28, Thursday,	Thanksgiving Day; a holiday
Nov. 29, Friday,	Sixty-fifth anniversary of the Whitman massacre
Dec. 20, Friday, 6 p. m., 1913	Christmas recess begins
Jan. 7, Tuesday, 8 a. m.,	Christmas recess ends
Jan. 27-Feb. 1,	Semi-annual examinations
Feb. 5, Wednesday, 10 a. m.,	Second semester begins
Mar. 19, Wednesday, 6 p. m.,	Easter recess begins
Mar. 26, Wednesday, 8 a. m.,	Easter recess ends
June 18, Wednesday,	Commencement
Sept. 17, Tuesday.	Convocation

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*The establishment of this professorship has been begun by Mrs. Frederick Billings of New York City.

†The establishment of the Mary A. Denny Professorship of English has been begun by Miss Margaretta L. Denny, of Seattle, in honor of her mother, wife of one of the earliest and most honored pioneers of the Puget Sound region.

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*Resigned November, 1911.

†Appointed January, 1912.

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WHITMAN COLLEGE

HISTORICAL SKETCH

WHITMAN COLLEGE was founded in 1859 by the Reverend Cushing Eells to commemorate the name of his friend and fellow missionary, Marcus Whitman, M. D.

Dr. Whitman had come to Oregon Territory in 1836 as a missionary to the Cayuse Indians, and with his wife established the first Christian home on the Pacific Coast. He brought the first wagon that ever crossed the Rocky Mountains. Under commission from the American Board of Commissioners for Foreign Missions, he settled at Waiilatpu, five miles west of the present city of Walla Walla, and began the work of medical missions, laying the foundations of Christian civilization. By his famous ride across the continent in the winter of 1842-3 he was instrumental in saving Oregon to the United States, leading back in 1843 the first great wagon train of emigrants through the Rocky Mountains to the Pacific Coast. The Indians to whom he had devoted his life murdered him and his wife and twelve others on the 29th day of November, 1847. As a missionary, a statesman, and a martyr he will ever be remembered. His place is high among the nation's heroes.

Rev. Cushing Eells and his wife came to Oregon Territory in 1838. They settled in Tshimakain (now Walker's Prairie) among the Spokane Indians, and spent nine years in preaching the Gospel far and wide. Driven from the country by the Indian uprising which followed the

massacre of Dr. Whitman, Mr. Eells withdrew to the Willamette valley until return might be safe. In 1858 the "upper country" was declared by the United States troops to be once more open for settlers, and Mr. Eells at once returned. Visiting Wailatpu, the ruined mission settlement of Dr. Whitman, he found a lonely grave into which the bodies of all the victims of the massacre had been gathered. As he stood by the great grave and meditated upon the heroic character of Dr. Whitman and the mystery of his untimely fate, he consecrated himself then and there to establish a worthy memorial to his friend. "The power of the Most High came upon me," he afterward declared, and he resolved to found a school for both sexes which should bear the name of Whitman and continue his work for Christian civilization. The idea was the germ of Whitman College.

The Legislature of the Territory of Washington granted a charter to "Whitman Seminary" on December 20, 1859, but the institution was not opened to the public until October 13, 1866. A plain two-story wooden school house was built by the gifts of Walla Walla people upon a site given by Dr. D. S. Baker, of Walla Walla, a loyal friend of the school, who afterwards gave additional land for a campus, six and a half acres in all. The consecration and self-sacrifice of Cushing Eells were the main support of the Seminary, and despite many difficulties it slowly grew in size and strength. In 1882, upon the election of Alexander Jay Anderson, Ph.D., as President, the courses of study were broadened and the standard of work was raised, and in 1883 the following charter was granted by the Legislature to "Whitman College."

AMENDED CHARTER

AN ACT to amend an Act entitled an "Act to establish an institution of learning in Walla Walla County," passed December 20th, 1859.

SECTION 1. Be it enacted by the Legislative Assembly of the Territory of Washington, that the above named act to establish an institution of learning in Walla Walla County, passed December 20th, 1859, be and the same is hereby so amended that section first shall read as follows: That there shall be established in Walla Walla County an institution of learning for the instruction of both sexes in literature, science, and art, to be called WHITMAN COLLEGE, and that Elkanah Walker, George H. Atkinson, Elisha S. Tanner, Erastus S. Joslyn, W. A. Tenney, H. H. Spaulding, John C. Smith, James Cragie, and Cushing Eells, and their successors, are hereby declared to be a body politic and corporate, in law, by the name and style of THE BOARD OF TRUSTEES OF WHITMAN COLLEGE.

SEC. 2. That section second of said Act shall be amended to read as follows: That the corporation before named shall have perpetual succession, and shall have power to acquire, by purchase, donation, devise, or otherwise, and possess and hold property, real, personal, and mixed, and the same to sell, grant, convey, rent, or otherwise dispose of at pleasure; and they shall have power to contract and be contracted with, sue and be sued, plead and be impleaded, in all courts of justice, both at law and equity. They shall have and use a common seal, with power to alter at pleasure; and they may exercise all the powers and enjoy all the privileges of other institutions of learning in this territory.

SEC. 3. That section third of said Act shall be amended to read as follows: That the corporate concerns of said Whitman College shall be managed by the Trustees themselves as a board, consisting of nine members, and that a majority of the members of said board shall constitute a quorum for the transaction of business; said Trustees shall elect one of their number to be president of their board, and they shall have power to fill all vacancies in their body as these may from time to time occur, by resignation, expulsion, death, or otherwise, and shall have power to make and put in force such by-laws and regulations as shall, from time to time, be deemed necessary for the government of said corporation.

SEC. 4. That section fourth of said Act shall be amended to read as follows: That the Board of Trustees shall have the power of appointment and removal of the President of the College, professors, tutors, teachers, and other necessary agents and officers, and may fix the compensation of each; and may make such by-laws for the government of the institution as they deem necessary, and shall have power to confer, on the recommendation of the Faculty, all such degrees and honors as are conferred by colleges and universities of the United States, and such others (having reference to the course of study and the attainments of the applicants) as they may deem proper. That the president and professors of the institution shall constitute the Faculty of said College; and shall have power to arrange the courses of study, and to take the proper measures to enforce the rules and regulations enacted by the Board of Trustees for the government and discipline of the students and to suspend and expel offenders as may be deemed necessary.

SEC. 5. That section fifth shall be amended so as to read as follows: That all deeds and instruments of conveyance shall be made by order of the Board of Trustees, sealed with the seal of the corporation, signed by the President and Secretary of the Board, and by them acknowledged in their official capacity in order to insure the validity of said deeds and instruments.

SEC. 6. That section sixth of said Act be amended to read as follows: That the property of said Board of Trustees of Whitman College, including all income and proceeds, shall be used exclusively for the purposes of education, and in consideration of such use, said property, income, and proceeds shall not be subject to taxation.

SEC. 7. That this act shall take effect and be in force from and after its passage and approval.

Passed the Council, November 21st, 1883.

SEWELL TRUAX, President of Council.

Passed the House, November 21st, 1883.

E. C. FERGUSON, Speaker of the House.

Approved, November 28th, 1883.

WILLIAM A. NEWELL, Governor.

In 1883 the first college building was erected, a large and substantial wooden structure, the cost of which, six-

teen thousand dollars, was contributed by the citizens of Walla Walla. The original Seminary building was remodelled in 1884, as a dormitory for girls, the cost of the building being met by gifts secured from people in New England through Mrs. Elvira Cobleigh.

The first attempt to secure funds for maintenance from the outside was made by Cushing Eells, who visited New England in 1883 at his own expense, was received warmly in recognition of his eminent Christian character and services, and obtained gifts amounting to more than twelve thousand dollars. He himself, by stern self-denial, gave many thousands of dollars to the College in his lifetime, and at his death made it his residuary legatee.

In 1883 the American College and Education Society of Boston, Massachusetts, afterwards known as the Congregational Education Society, placed Whitman College upon its list of institutions to be aided. Gifts received from this source were for many years an indispensable factor in the growth of the college. In 1891 the condition for further aid was made that thereafter a majority of the trustees should be members of evangelical Congregational churches.

In 1893 Dr. D. K. Pearsons of Chicago offered to give fifty thousand dollars for endowment, provided that one hundred and fifty thousand dollars additional be secured for the same purpose. Through the generosity of many friends in different parts of the United States the amount was secured, about sixty thousand dollars being given by citizens of Walla Walla. Miss Virginia Dox, the agent of the College in this movement, was an indispensable factor in its success, winning many friends and a great number of gifts by her eloquent presentation of the history and need of the College and by her indefatigable labors in its behalf. In 1898 Dr. Pearsons gave fifty thou-

sand dollars for an administration building on condition that funds be secured for a men's dormitory. A total of thirty-three thousand dollars was raised, of which fifteen thousand dollars was contributed by citizens of Walla Walla, the faculty, and the students of the College. The largest individual giver was Mrs. Frederick Billings of New York City, in memory of whose sons, Parmly and Ehrick, the dormitory was named Billings Hall. In 1902 Dr. Pearsons gave fifty thousand dollars for further endowment, conditioned on the erection of a women's dormitory. The major part of the funds for this object was given by Rev. and Mrs. Edward Lincoln Smith of Seattle and Hon. and Mrs. Levi Ankeny of Walla Walla, at whose joint request the building was named Reynolds Hall, in honor of Mrs. Lettice J. Reynolds of Walla Walla, who came across the plains with Dr. Marcus Whitman in 1843. The gymnasium was erected in 1905, at a cost of twenty-eight thousand dollars. The funds for this purpose were contributed by students, faculty, trustees and friends of the College in the Northwest.

In December, 1907, the trustees adopted far-reaching plans for the immediate development of the College, involving the union of the citizens of the entire Pacific Northwest, Oregon, Washington, and Idaho, in support of a central interdenominational institution of the highest grade. In consideration of the remarkable natural resources of the region, and the need of experts to develop and conserve them, it was felt that courses in engineering must be established in addition to the courses in liberal arts. Preliminary to this movement for unification and enlargement, the Congregational Education Society, appreciating the opportunity for larger service which was before the institution, generously released the College from the agreement referred to above.

In June, 1908, the trustees adopted the following

CONSTITUTION

ARTICLE I.—NAME

The corporate name of the institution shall be THE BOARD OF TRUSTEES OF WHITMAN COLLEGE.

ARTICLE II.—PURPOSE

The purpose of this corporation shall be to maintain a non-sectarian, Christian institution of learning, to be called Whitman College, for the instruction of both sexes in literature, science, and art.

ARTICLE III.—ORGANIZATION

SECTION 1. The corporate concerns of Whitman College shall be vested in the Board of Trustees, consisting of nine members, of whom a majority shall constitute a quorum for the transaction of business. They shall hold all properties and exercise all powers conferred upon them by charter, but may delegate to the Board of Overseers, hereinafter established, certain express powers at will. They shall hold office for four years, or until their successors are elected. The President of the College shall be a member *ex-officio*. The President of the College and a majority of the Board of Trustees shall be members of Christian Churches.

SEC. 2. The Board of Overseers shall consist of sixty-four members, to be appointed originally by the Board of Trustees, of whom a majority shall constitute a quorum for the transaction of business. They shall have the power to establish departments of study, to provide means for the maintenance thereof, to direct the financial and educational policy of the institution, and to take such measures as they shall deem necessary for the development of the institution along the lines of its history, traditions, and specific purpose. The exercise by the Board of Overseers of any of the powers devolved by the charter upon the Board of Trustees shall require ratification of said Board of Trustees. The Trustees shall be members *ex-officio*. Members of the Board of Overseers shall hold office for five years. When the Board is at first constituted lots shall be drawn to arrange the elected mem-

bers into five classes of eleven each, whose first tenure of office shall be respectively for one, two, three, four, and five years, at the end of which time vacancies shall be filled by election by the Board of Overseers.

SEC. 3. The Faculty shall consist of the President and Professors of the institution, who shall have power to arrange the courses of study, and to take proper measures to enforce the rules and regulations enacted by the Board of Trustees for the government and discipline of the students, and to suspend and expel offenders as may be deemed necessary.

ARTICLE IV.—OFFICERS

SEC. 1. Of the Board of Trustees.

a. The officers of the Board of Trustees shall be a President and a Secretary, who shall be chosen by ballot at its annual meeting, and shall hold office for one year or until their successors are chosen.

b. The President of the Board of Trustees shall preside at all meetings of the Board of Trustees, and shall sign all deeds and instruments of conveyance ordered by said Board.

c. The Secretary shall keep a full and accurate report of all meetings of the Board of Trustees, shall keep the official seal of the corporation, and shall sign and seal all the deeds and instruments of conveyance ordered by said Board.

SEC. 2. Of the Board of Overseers.

a. The officers of the Board of Overseers shall be a chairman, three vice-chairmen, a secretary, who shall be the same person as the secretary of the Board of Trustees, and an executive committee. The executive committee shall consist of seven members, including the chairman and secretary. These officers shall be chosen by ballot at the annual meeting hereinafter provided, and shall hold office until their successors are chosen.

b. The Chairman shall preside at all meetings of the Board of Overseers. He shall call special meetings upon the request of three members, shall act as executive head of said Board when it is not in session, and shall represent it officially upon all public occasions.

c. The duties of the Secretary shall be those usually appertaining to such office.

d. The Executive Committee shall exercise all the powers of the Board of Overseers when said Board is not in session, and shall make a full report of its actions at each meeting of the Board.

SEC. 3. Of the Faculty.

a. The officers of the Faculty shall be a President, a Vice-President, a Dean, and a Secretary, of whom the President, Vice-President, and Dean shall be chosen by the Board of Trustees to hold office until their successors are chosen.

b. The President shall preside at all meetings of the Faculty. He shall have power to call meetings of the Faculty or Board of Trustees, and shall be the executive head of the institution. He shall make recommendations from time to time to the Board of Trustees and to the Board of Overseers, and shall nominate new professors, tutors, and teachers, to be elected by the Board of Trustees.

c. The Vice-President shall act as President at the request of the President.

d. The duties of the Dean of the College shall be determined by the President after mutual consideration between the President and the Dean from time to time.

e. The Secretary of the Faculty shall be chosen by the Faculty from their own number, and shall continue in office until his successor is elected. He shall keep full and accurate reports of all meetings of the Faculty, and of all statutes and regulations enacted thereby.

ARTICLE V.—TREASURER

SECTION 1. A Treasurer shall be elected by the Board of Overseers and confirmed by the Board of Trustees, who shall be the custodian of all funds and properties of the College. He shall invest its permanent funds under the direction of the finance committee, shall collect all rents, interest moneys, and income derived therefrom, shall care for the proper maintenance of all its properties, and be the guardian of its financial interests. He shall collect all tuitions, fees, and outstanding accounts, and shall disburse such sums of money as are authorized by the Board of Overseers. He shall maintain two separate accounts, one for the endowment funds and one for current expenses, and these shall be kept distinct. He shall deposit all income from vested funds, tuitions, fees, and receipts in the current expense accounts,

which alone shall be subject to draft for meeting the annual expenses for maintenance. He shall submit his accounts and all evidences of property under his charge to the auditors or auditing committee appointed by the Board of Overseers. He shall submit full and accurate reports of the receipts and expenditures of the College to the Board of Trustees and Overseers at their annual meeting.

SEC. 2. The Treasurer of the College may from time to time and for periods of time while he holds the office nominate a Bursar, who if confirmed by the Board of Overseers, shall have such of the powers and perform such of the duties of the Treasurer as the Board of Overseers shall think fit. The Bursar shall receive such salary as the Board of Overseers shall approve, and the Treasurer and Bursar shall give to the Board of Trustees their joint and several bond in such sum as the Board of Overseers shall determine from time to time for the faithful performance of their duties.

SEC. 3. The reports of the Treasurer and Bursar shall be audited not less than twice each year by auditors or committees appointed by the Board of Overseers.

ARTICLE VI.—FINANCE COMMITTEE

The investment of the permanent funds of the College shall be entrusted to a Finance Committee consisting of seven persons, viz., the Treasurer, the President of the College, and five others elected annually by the Board of Overseers, from their own number. Four shall constitute a quorum, and no investment shall be made without the unanimous approval of all the members present at a regular meeting. No portion of the permanent funds shall be used for current expenses. The Finance Committee shall submit an annual report to the Board of Trustees and Overseers at their annual meetings.

ARTICLE VII.—DECLARATION

The Trustees, Overseers, Faculty, and Officers of Instruction and Administration shall sign the Roll of Official Records of Trustees, Overseers, Faculty, and Officers of Instruction and Administration, and shall subscribe to the following declaration:

In signing this roll, I accept the position written in against my name, to which I have been elected by the constituted authorities

of Whitman College. I hereby declare my intention of fulfilling the duties thereof, and of supporting faithfully the constitution, by-laws, and regulations of Whitman College, in accordance with the Christian principles and spirit of its foundation.

ARTICLE VIII.—CALENDAR

SECTION 1. The fiscal year of the College shall end on the 31st day of July.

SEC. 2. The Commencement of the College shall take place upon the third Wednesday in June of each calendar year. The exercises of Convocation shall be held on the evening of the third Tuesday in September.

SEC. 3. The Board of Overseers shall meet on the third Tuesday of November and June. The annual meeting of the Board of Overseers shall be held on the third Tuesday of November and the annual meeting of the Board of Trustees shall be held on the third Wednesday in November.

SEC. 4. Regular meetings of the Board of Trustees shall be held on the third Wednesday of each month.

ARTICLE IX.—BY-LAWS

By-laws not inconsistent with this constitution may be adopted at any regular meeting of the Board of Trustees on a two-thirds vote of the members present.

ARTICLE X.—AMENDMENTS

This constitution may be altered or amended at the annual meeting of the Board of Trustees by a two-thirds vote of the members present, provided that written notice of the proposed alteration or amendment has been sent to each member of the Board at least one month previous to the annual meeting.

A Board of Overseers, comprising many of the most representative men of the three states, was elected and plans were adopted for the immediate raising of two million dollars for the further endowment of the College and the establishing of superior courses in engineering. The effort to secure this sum met immediate and gratifying encouragement. Many and generous contributions have

shown a widespread desire that Whitman College may be able to meet the highest educational needs of the Northwest.

The College has a wider commemorative function than to preserve the name of Dr. Whitman alone. It recognizes the worth of the other pioneers and desires to commemorate them also. It may be truly regarded as a monument to the pioneers of Oregon Territory, and it will seek to honor, in its buildings, its professorships, its various funds for scholarly purposes, the names of the men and women who have played a distinguished part in the making of the Pacific Northwest.

DISCONTINUANCE OF PEARSONS ACADEMY

The preparatory department, after an honorable existence of forty-six years under the successive names of Whitman Seminary, Whitman Academy, and Pearsons Academy, will be discontinued after June, 1912. This action is taken by the Trustees in the belief that the maintenance of a preparatory department is no longer necessary, owing to the increase of high school facilities in the Northwest.

LOCATION AND EQUIPMENT

Whitman College is located at Walla Walla, Washington, in one of the most beautiful and fertile valleys of the United States. The city has a population of about twenty thousand. It is easy of access from all directions by the lines of the Oregon-Washington Railroad and Navigation Company and the Northern Pacific Railway. The climate is most healthful. Situated at the base of the Blue Mountains, which lie to the east and south of the town, Walla Walla is famous for all those conditions of healthfulness, beauty, and fertility which are to be desired for an educational center. The region is justly celebrated for its wheat fields, its orchards, and its gardens. The people are intelligent and progressive, appreciating the advantages of college life and influences, and desirous of seeing a well equipped institution.

The present campus comprises about thirty acres of land close to the heart of the city. The grounds are well laid out, with fine lawns and trees, and diversified by a stream of pure spring water flowing diagonally across. A small lake adds to the landscape effect. The athletic field, located on the campus, is a fine and modern field containing a quarter-mile running track, with ample space for all ordinary athletic games and exercises. It has been named Ankeny field after Hon. Levi Ankeny, former United States Senator for Washington.

Whitman Memorial (1899) is a handsome three-story building of stone and light-colored pressed brick, 172 by 70 feet. It is the gift of Dr. D. K. Pearsons of Chicago, the greatest benefactor of the College. It contains fourteen recitation rooms, laboratories for Chemistry, Biology and Geology, the library and reading room, a chapel with a seating capacity of five hundred, a museum, and

offices for the executive departments. It is heated by steam and lighted with gas. In the tower is a clock given in memory of Mrs. S. B. Linnard of Philadelphia. The hours and half hours are struck, and the four dials are illuminated at night. There is a fine three-manual Roosevelt pipe organ in the chapel, given in honor of Mrs. Nathaniel Shipman, of Hartford, Connecticut.

Billings Hall (1899) is a handsome building of stone and light-colored pressed brick. It is named in honor of Parmly and Ehrick, sons of the late Frederick Billings of New York City. It contains rooms for about seventy men. It is heated with steam and lighted with electricity. The dining department has accommodations for one hundred men.

Reynolds Hall (1902) is a substantial three-story building of stone and brick, with excellent accommodations for fifty women. The first floor comprises a reception room and large parlors, the dining room with accommodations for one hundred women, the kitchen, and the laundry. The two upper floors are devoted to students' rooms, single and en suite. It is heated by steam and lighted by electricity.

Prentiss Hall (1866 and 1884) is named in honor of Narcissa Prentiss, wife of Marcus Whitman. The first floor is devoted to the department of Physics and provides large laboratories, recitation room, and rooms for apparatus and storage. Within the past year the upper floor has been entirely remodelled, providing dormitory accommodations for twenty-five women.

Green Cottage is a large and comfortably furnished house situated on the college campus next to Reynolds Hall. It has accommodations for fourteen women.

Association Hall (1889) is a two-story wooden build-

ing, the first floor of which is used by the Christian Associations and the literary societies.

The Gymnasium (1905) is a substantial three-story building of brick and stone, 114 by 62 feet. On the first floor are separate bathrooms and dressing rooms for men and for women, and a swimming tank, 52 feet long by 26 feet wide, and ranging in depth from 3 feet to 8 feet. On the second floor are the director's rooms, trophy and reception rooms, and main hall for exercise, 90 by 60 feet. The third story is given up to the gallery. The building is heated by steam and lighted by electricity. The equipment is modern and complete.

On a separate part of the campus are situated the buildings of the Conservatory of Music and of Pearsons Academy.

The Conservatory of Music (1910) is a handsome fire-proof building of concrete, brick and terra cotta. It is devoted entirely to the use of the Conservatory of Music. The basement contains class-rooms, a room for ensemble work, and a room for piano tuning, equipped with an elevator. The main floor is occupied by the teachers' studios, a large lobby, the administrative offices, and the reception room. A small concert hall, seating about two hundred and fifty persons, is used for recitals and concerts. The second and third floors are devoted to practice rooms for music students. The building is heated by steam with a vacuum system, and lighted by electricity.

The Pearsons Academy Building (1883) is a large two-story building, with ample recitation rooms, laboratories, offices, reading room, and assembly hall. After the year 1911-12, the preparatory department having been discontinued, the building will be used as recitation rooms for college classes.

THE LIBRARY

The College Library has shown a steady growth during the past year, many bound volumes and pamphlets having been added in that period. It contains about twenty thousand bound volumes and ten thousand pamphlets. Eighty periodicals are regularly received. The greater part of this accession has been the result of gifts from friends. The Library has been for many years a depository for United States government documents, and possesses a very valuable collection of them. Within the present year these books have been re-classified so as to make them more readily available for reference.

The income from the Washburn Library Fund of one thousand dollars is used exclusively for the purchase of books. This is the only invested fund at present available for securing such volumes as are in immediate demand in the work of the College. An appropriation is made by the Trustees each year for the maintenance and increase of the library.

The Trask Alcove of English Literature has been established by Mr. and Mrs. J. G. Trask, of Beverly, Massachusetts, in memory of their only son, John Pickett Trask, a member of the class of 1895 in Amherst College, who died during his senior year.

The Penrose Missionary Alcove has been established and is maintained by Mrs. Clement Biddle Penrose of Philadelphia. It contains a valuable collection of books on Missions.

The Cousens Alcove of Economics has been established in memory of the late Mr. Horace Cousens of Newton Center, Massachusetts, a generous friend of the college.

The Myron Eells Alcove of Northwest History has been established in memory of the late Myron Eells, for

many years a trustee and ardent friend of the College. The nucleus of the collection was formed by Dr. Eells's private library, comprising about five hundred carefully chosen volumes, which were given to the College by Mrs. Eells.

The Class of 1907 Latin Alcove is the establishment of the class whose name it bears. The annual gift of eighty dollars for the support of the alcove is to be expended, on the requisition of the head of the department of Latin, for standard texts and works of reference.

The Moore Alcove of Political Science has been established and is maintained by Hon. Miles C. Moore, of Walla Walla, ex-Governor of Washington and a trustee of the College.

In connection with the Library is a reading room in which eighty periodicals and fifty newspapers are regularly received. Every possible facility is offered for reference, general reading, and special study. Students are aided in original investigations and collateral reading. The Library is equipped with card catalogue and the most approved apparatus. The privileges of the Library are free to all members of the institution, to alumni, teachers, clergymen, and, on recommendation of the Library Committee, to any responsible citizen of Walla Walla County. The library hours are from 8 a. m. to 6 p. m. of each week day.

THE MUSEUMS

MUSEUM OF NATURAL HISTORY—To the large and varied collection of natural history material now in possession of the College, additions are constantly being made. Gifts or loans of specimens of every kind, or gifts for additional equipment will be gladly received. Such gifts of material will be labeled with the name of the donor, and

acknowledgment will be made in the official publications of the College.

HISTORICAL MUSEUM—An historical museum has been founded and has already a considerable collection of valuable material relating to the early history of the Northwest. Many valuable exhibits relating to Dr. Marcus Whitman and the Whitman Mission are in the collection.

ETHNOLOGICAL MUSEUM—The Myron Eells Indian Collection has been presented to the College by Mrs. Eells. It contains about sixteen hundred specimens of objects, photographs, and drawings, accompanied by copious notes illustrating the life of the Indians of the Puget Sound region and Alaska.

LABORATORIES

The chemical and biological laboratories occupy commodious quarters in the Whitman Memorial Building. The first floor of Prentiss Hall is devoted to the physical laboratory. Each laboratory is fully equipped with the apparatus and materials necessary for carrying on the work as outlined in the courses of study.

TERMS OF ADMISSION

Every candidate for admission to Whitman College is required to bring a testimonial of good character from some reliable person, preferably the head of the school in which he was prepared for college.

Candidates for admission to the Freshman class must present thirty-two credits in the following preparatory subjects. A credit represents a course of study through eighteen weeks with four one-hour or five three-quarter-hour recitations per week. Of this work part is prescribed and part elective. The character of electives chosen will largely determine the college degree for which the student may become a candidate. If a student has sufficient subjects from the following list to make a total of thirty-two credits, but omits a study prescribed for entrance, he may be admitted without conditions, but will be required to make up the prescribed study, receiving college credit for it. In every case, however, it is preferable that the prescribed studies be taken before coming to college, inasmuch as such studies taken in college reduce by so much the choice of elective college studies to which the student is entitled.

Those who expect to become candidates for the degree of Bachelor of Arts must present from the list on the following page 1 or 2; 5 or 7 or both; 6 or 8 or both; four credits from 6, 8, 9, 10, 11, 12; 13; 14; 15; 21, 22, 23, or 24; and additional credits sufficient to make a total of thirty-two.

Those who expect to become candidates for the degree of Bachelor of Science must present 1 or 2; 7; 13; 14; 15; 16; 21; four credits from 9, 10, 11, 12; four credits from 17, 18, 20, 22, 23, 24; and additional credits sufficient to make a total of thirty-two. (Students in Engineering must present 17 or 18).

Those who expect to become candidates for the degree of Bachelor of Music will present 1 or 2; 7; 13; 14; 15; 21 or 22; six credits from 5, 6, 8, 9, 10, 11, and 12; and additional credits to make a total of thirty-two.

Students who intend to make an extended study of English or any foreign language are strongly advised to study Greek as well as Latin.

No.	Subjects	Credits
1.	Greek and Roman History.....	2
2.	American and English History.....	2
3.	Other History	2
4.	*Economics	2
5.	Elementary Greek	2
6.	Advanced Greek	4
7.	Elementary Latin	4
8.	Advanced Latin	4
9.	Elementary French	2
10.	Advanced French	2
11.	Elementary German	2
12.	Advanced German	2
13.	English	6 to 8
14.	Algebra	3
15.	Plane Geometry	2
16.	Solid Geometry	1
17.	Plane Trigonometry	1
18.	Mechanical Drawing	2
19.	*Manual Training	2
20.	Physiography	2
21.	Physics	2
22.	Chemistry	2
23.	Zoology	2
24.	Botany	2
25.	Harmony	2
26.	Counterpoint	2

*Credit will be granted in these subjects only when the teaching of them in any school has been examined and approved by the College.

The maximum number of credits which may be presented for entrance in the several studies is as follows: History, Civics, Economics, and English, in all twelve; Greek, six; Latin, eight; French, six; German, six; Mathematics (Algebra, Geometry, Trigonometry, Mechanical Drawing), eight; Science (Physiology, Physiography, Physics, Chemistry, Botany, Zoology, Geology), six; Theory of Music (Harmony, Counterpoint), four.

ADMISSION WITHOUT EXAMINATION

Upon application to the Registrar, blanks will be sent to any prospective student, on which to record the studies which he has pursued and the evidences of his preparation for entrance to Whitman College. If the statement of work done be approved by the Faculty Committee on admission, the student will be admitted without examination. Principals of schools who wish their pupils to be admitted by certificate must furnish the Admission Committee such information respecting their courses of study and their experience and success in preparing students for college as will enable the Faculty to act intelligently on their applications. Whenever possible the school will be visited by a member of the Faculty.

ADMISSION BY EXAMINATION

A candidate for admission must ordinarily pass the entrance examination unless he come from a college of equal standing or from an accredited school. Examinations for admission to the several courses will be held in the studies contained in the following list and in accordance with the requirements in each study as stated.

For the amount of credit allowed for each study and the relation of each subject to the requirements for admission, see pages 32 and 33.

HISTORY (INCLUDING GEOGRAPHY)

1. **Ancient History**, comprising a brief view of the Oriental nations, Greek history to the division of Alexander's empire, and Roman history to the fall of the Western Empire.

2. **American History**, including the Colonial period and extending to the end of nineteenth century, and **English History**, with especial emphasis upon the development of Parliament.

In either of these subjects the pupil is expected to have pursued a course equivalent to five lessons a week for at least a school year.

3. **Other History**. Credit will be granted in other History on approval of the Department of History in the College.

A valuable feature of high school preparation is collateral reading and discussion of source material, such as the "Liberty Documents" and similar collections pertaining to English and American history. Like benefit may be derived in the study of ancient history by readings from Herodotus, Plutarch, and the ancient poets. Debates and class discussions are an excellent means of arousing the interest of pupils.

ECONOMICS

4. **Elementary Economics**. Credit will be granted only on approval of the Department.

GREEK

5. **Elementary**: The inflections; the simpler rules for composition and derivation of words; syntax of cases and of the verbs; structure of the sentence. This examination presupposes one year of study.

The student should have a firm grasp of the elements of Greek and be prepared to translate simple connected narrative. He should be taught to pronounce Greek with special regard to the quantity of all syllables; to read sentences intelligently, spacing the phrases; to compose and deliver simple sentences orally.

6. **Advanced**: Xenophon's *Anabasis*, first four books, or an equivalent amount of other Attic prose; Homer's *Iliad*, three

books; prose composition. This examination presupposes two years of study.

The aim here should be at least threefold. First, to keep the student accurate in construing and rendering the Greek. An important means to this end is to give close attention to connecting particles, moods, and tenses, and word order. Secondly, there should be continuous practice in reading to get the thought directly from the original, without translation. This task is more difficult than in a modern language, but can be done if slow and careful practice is had constantly, especially on sentences already translated, with occasional easy sight work. The third essential is a literary appreciation of the author, with some knowledge of his life, work, and time.

Slow and intensive work in the second year produces better results than fast reading. If a class can do only about three books of the *Anabasis*, interest is best attained by reading Books I and II; Book III, Chapter 1, sections 1-14 and chapters 3-5; and Book IV. This gives a practically continuous narrative that has an end and leaves out the difficult speeches in Book III. The omitted portions should be brought before the class by the instructor or in translation.

At the end of the third year other Attic prose makes a diversion from the *Anabasis* and stimulates the reader. Such work can be found in Goodwin's *Greek Reader*, where, among the interesting selections, the most feasible are Xenophon's account of the Thirty Tyrants and Herodotus' history of the Persian wars; or, some of Lucian's dialogues, humorous and satiric and not hard, are valuable and interesting.

LATIN*

7. Elementary: Pronunciation by the Roman method; the inflections; simple syntax and compositions; Cæsar, *Gallie War*, Books I-IV, or an equivalent amount from the *Lives* of Nepos and the *Gallie War* and *Civil War* of Cæsar.

8. Advanced: Cicero, the orations against Catiline, for the Manilian Law, and for Archias, or an equivalent amount (which must include Cicero's orations for the Manilian Law) from

*The requirements here defined, and the suggestions concerning preparation which accompany them are substantially those adopted by the American Philological Association in October, 1909, and recommended for adoption by American colleges and universities.

Cicero's orations, letters, and *De Senectute* and Sallust's *Catiline* and *Jugurthine War*; Vergil, *Aeneid*, Books I-VI, or an equivalent amount (which must include Books I and II and either IV or VI of the *Aeneid*) selected from Vergil's *Bucolics*, *Georgics*, and *Aeneid* and Ovid's *Metamorphoses*, *Fasti* and *Tristia*. In connection with the prose reading some attention should be given to the study of Roman political institutions and the history of the later Republic; with the study of poetry there should be work in metrical reading and prosody and some attention to mythology. Not less than one year's work, one exercise per week, should be given to prose composition based upon Cicero.

In preparation for each of the above examinations the student is expected to have pursued a course of study equivalent to five lessons a week for two years, or four years in all.

Suggestions Concerning Preparation

Exercises in translation at sight should begin in school with the first lessons in which Latin sentences of any length occur, and should continue throughout the course with sufficient frequency to insure correct methods of work on the part of the student. From the outset particular attention should be given to developing the ability to take in the meaning of each word—and so, gradually, of the whole sentence—just as it stands; the sentence should be read and understood in the order of the original, with full appreciation of the force of each word as it comes, so far as this can be known or inferred from that which has preceded and from the form and the position of the word itself. The habit of reading in this way should be encouraged and cultivated as the best preparation for all the translating that the student has to do. No translation, however, should be a mechanical metaphor. Nor should it be a mere loose paraphrase. The full meaning of the passage to be translated, gathered in the way described above, should finally be expressed in clear and natural English.

A written examination cannot test the ear or tongue, but proper instruction in any language will necessarily include the training of both. The school work in Latin, therefore, should include much reading aloud, writing from dictation, and translation from the teacher's reading. Learning suitable passages by heart is also very useful, and should be more practised.

The work in composition should give the student a better understanding of the Latin he is reading at the time, if it is prose, and greater facility in reading. It is desirable, however, that there should be systematic and regular work in composition during the time in which poetry is read as well; for this work the prose authors already studied should be used as models.

FRENCH

9. Elementary: A thorough knowledge of elementary grammar, including the more common irregular verbs, is required, with ability to translate at sight modern prose of moderate difficulty, to translate simple English sentences into French, and to answer simple questions in French. Accuracy in pronunciation is of the utmost importance. The preparation should include the reading of not less than 200 pages of graded modern prose. The work cannot be done ordinarily in less than one year.

10. Intermediate French. A working familiarity with grammar, including syntax is demanded, with ability to read at sight French prose of considerable difficulty, to translate ordinary English prose into French, and to converse with moderate facility. In addition to the reading prescribed in the elementary course, 300 pages of modern prose of representative authors should be read. The work will demand at least a year of study in advance of the elementary work indicated above.

GERMAN

11. Elementary: The student should have had (a) careful drill in pronunciation, (b) a well-grounded knowledge of the rudiments of grammar, (c) abundant exercises both oral and written to illustrate principles of grammar and also to cultivate readiness in the spoken idiom, (d) the reading of from 100 to 200 pages of graduated texts with practice in reproducing from memory sentences previously read, memorizing of poems, etc. The work will require at least a year.

12. Intermediate: The work should include (a) from 200 to 400 pages of moderately difficult prose and poetry, (b) composition based upon the works read, (c) thorough drill in inflections, rules of syntax, and word order, (d) practice in pronunciation sufficient to enable the student to understand the spoken German

of the class room. Not less than a year in addition to the elementary course described above should be given to the work.

ENGLISH

The examination will consist of two parts, which must be taken at the same time:

13. a. **Composition.** The candidate will be required to write a short essay which will be judged from the standpoint of thought, spelling, punctuation, grammar, and division into paragraphs.

In 1912, ten books, selected as prescribed below from the following list, are to be offered for this part of the examination:

Group I (two to be selected).

Shakespeare's *As You Like It*, *Henry V*, *Julius Caesar*, *The Merchant of Venice*, *Twelfth Night*.

Group II (one to be selected).

Bacon's *Essays*; Bunyan's *The Pilgrim's Progress*, Part I; *The Sir Roger de Coverley Papers* in the *Spectator*; Franklin's *Autobiography*; Bacon's *Essays*.

Group III (one to be selected).

Chaucer's *Prologue*; Spenser's *Faerie Queene* (selections); Pope's *The Rape of the Lock*; Goldsmith's *The Deserted Village*; Palgrave's *Golden Treasury* (First Series) Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns.

Group IV (two to be selected).

Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe* and *Quentin Durward*; Hawthorne's *The House of the Seven Gables*; Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; Dickens's *A Tale of Two Cities*; George Eliot's *Silas Marner*; Blackmore's *Lorna Doone*.

Group V (two to be selected).

Irving's *Sketch Book*; Lamb's *Essays of Elia*; De Quincey's *Joan of Arc*, and *The English Mail Coach*; Carlyle's *Heroes and Hero Worship*; Emerson's *Essays* (selected); Ruskin's *Sesame and Lilies*.

Group VI (two to be selected).

Coleridge's *The Ancient Mariner*; Scott's *The Lady of the Lake*; Byron's *Mazeppa* and *The Prisoner of Chillon*; Palgrave's *Golden Treasury* (First Series) Book II, with special attention to Wordsworth, Keats, and Shelley; Macaulay's *Lays of Ancient Rome*; Poe's *Poems*; Lowell's *The Vision of Sir Launfal*; Arnold's *Sohrab*

and *Rustum*; Longfellow's *The Courtship of Miles Standish*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Evelyn Hope*, *Home Thoughts from Abroad*, *Incident of the French Camp*, *The Boy and the Angel*, *One More*, *Hervé Riel*, *Pheidippides*.

These ten books are to be read carefully and intelligently. Minute knowledge of them will not be required, but the candidate will be expected to have freshly in mind their most important parts. Knowledge of the book, however, is regarded as less important than ability to write good English.

In 1913, 1914, and 1915 the following requirement is substituted for this part of the examination. Two units* are to be selected from each group.

I. The *Old Testament*, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the *Odyssey*, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; the *Iliad*, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; Virgil's *Aeneid*. The *Odyssey*, *Illiad*, and *Aenieid* should be read in English translations of recognized literary excellence.

For any unit of this group a unit from any other group may be substituted.

II. Shakespeare's *Merchant of Venice*; *Midsummer Night's Dream*; *As You Like it*; *Twelfth Night*; *Henry the Fifth*; *Julius Caesar*.

III. Defoe's *Robinson Crusoe*, Part I; Goldsmith's *Vicar of Wakefield*; Scott's *Ivanhoe* or *Quentin Durward*; Hawthorne's *House of the Seven Gables*; Dickens's *David Copperfield* or *Tale of Two Cities*; Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; George Eliot's *Silar Marner*; Stevenson's *Treasure Island*.

IV. Bunyan's *Pilgrim's Progress*, Part I; the Sir Roger de Coverley papers in *The Spectator*; Franklin's *Autobiography* (condensed); Irving's *Sketch Book*; Macaulay's *Essays on Lord Clive* and *Warren Hastings*; Thackeray's *English Humourists*; *Selections* from Lincoln, including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, and the Letter to Horace Greeley, along with a brief memoir or estimate;

*Each unit is followed by a semicolon or a period.

Parkman's *Oregon Trail*; either Thoreau's *Walden*, or Huxley's *Autobiography* and selections from *Lay Sermons*, including the addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk; Stevenson's *Inland Voyage* and *Travels with a Donkey*.

V. Palgrave's *Golden Treasury* (First Series), Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, and Burns; Gray's *Elegy in a Country Churchyard* and Goldsmith's *Deserted Village*; Coleridge's *Ancient Mariner* and Lowell's *Vision of Sir Launfal*; Scott's *Lady of the Lake*; Byron's *Childe Harold*, Canto IV, and *Prisoner of Chillon*; Palgrave's *Golden Treasury* (First Series), Book IV, with especial attention to Wordsworth, Keats, and Shelley; Poe's *Raven*, Longfellow's *Courtship of Miles Standish*, and Whittier's *Snow-Bound*; Macaulay's *Lays of Ancient Rome* and Arnold's *Sohrab and Rustum*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *Hervé Riel*, *Pheidippides*, *My Last Ducheess*, *Up at a Villa—Down in the City*.

b. **Literature.** In addition to the above the candidate will be required to pass an examination on the subject matter, literary forms, and logical structure of the books enumerated below, showing his ability to express his knowledge with clearness and accuracy.

In 1912 the books set for this part of the examination are:

Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; either Burke's *Speech on Conciliation with America*, or both Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; either Macaulay's *Life of Johnson* or Carlyle's *Essay on Burns*.

In 1913, 1914, and 1915 the books set for this part of the examination are as follows: Shakespeare's *Macbeth*; Milton's *L'Allegro*, *Il Penseroso*, and *Comus*; either Burke's *Speech on Conciliation with America*, or both Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; either Macaulay's *Life of Johnson* or Carlyle's *Essay on Burns*.

***MATHEMATICS**

14. Algebra. The four fundamental operations for rational algebraic expressions, factoring, determination of highest common factor and lowest common multiple by factoring; fractions, including complex fractions; ratio and proportion; linear equations, both numerical and literal, containing one or more unknown quantities; problems depending on linear equations; radicals, including the extraction of the square root of polynomials and numbers; exponents, including the fractional and negative. Quadratic equations, both numerical and literal; simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations; problems depending upon quadratic equations; the binomial theorem for positive integral exponents; the formulae for the n th term and the sum of the terms of arithmetical and geometrical progressions, with applications.

It is assumed that pupils will be required throughout the course to solve numerous problems which involve putting questions into equations. Some of these problems should be chosen from Mensuration, from Physics, and from commercial life. Facility in the analysis and the discussion of an algebraic expression or equation, and the use of graphical methods and illustrations in connection with the solution of equations, is also expected.

Not less than one and one-half years, five recitations per week, or its equivalent will be needed to complete the requirement in algebra; no applicant for admission on certificate can have his work accepted who has not given this amount of time to it, and one-third of the whole time must have been in the last two years of the preparatory course.

15. Plane Geometry. The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons and the measurement of the circle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of lines and plane surfaces.

*The definition of the requirements for entrance is substantially that adopted and recommended by the American Mathematical Society.

16. Solid Geometry. The ordinary propositions relating to right lines and planes in space, to the measurements of prisms, cylinders, pyramids, cones, frustums, the sphere and portions of its surface and volume, the solution of problems involving the computation and comparison of the surfaces and volumes of the cylinder, cone, frustum of cone, sphere, and their principal inscribed and circumscribed solids, and problems in loci.

The time devoted to plane geometry should not be less than one year, five recitations per week, and to solid geometry one half year, five recitations per week.

17. Plane Trigonometry. The theory of the functions and their relations so far as to furnish formulae for the computation of the tables and the solution of right and oblique triangles, the use of logarithmic and trigonometric tables in the solution of problems.

Students who expect to pursue courses in engineering will not have their algebra or trigonometry accepted on certificate. Such students must take entrance examinations in these subjects.

18. Mechanical Drawing. Time requirement, one year, five exercises per week.

Suggestions Concerning Preparation

Thorough drill in arithmetic is vital to all of the branches which follow it. Facility in the use of integral and fractional numbers, acquired in the lower grades, should be retained by the use of many numerical examples through the preparatory course. Short processes and decimals including the metric system should be used habitually.

Definitions and fundamental principles should be most carefully discussed in class, and attention given to the full meaning of each word and sentence in an important definition or principle. Students should be guarded against the tendency to become mechanical in their algebraic work and from giving disproportionate attention to mere dexterity in the solution of problems.

In geometry, figures carefully constructed to measure, with scale, compass, and protractor, and numerous applications of the principles in numerical examples should be a part of the discipline. The free use of cross section paper in both algebra and geometry is advised.

MANUAL TRAINING

19. Manual Training. Credit will be granted in proportion to the ground covered. A full notebook must accompany the application for credit.

SCIENCE

20. Physiography. A study of the subjects usually given in courses in physical geography—the earth as a planet, the atmosphere, the climate, the ocean, and the land. Emphasis is to be placed upon the land, especially upon the topographic features, their origin and their significance. Some recent text-book should form the basis for the course. This text-book should be supplemented by the study of maps, models, and the features of the earth's surface in the vicinity of the school. Time requirement four or five hours a week throughout the year.

21. Physics. Laboratory work is essential in preparation for this subject. As much ground should be covered as is contained in such a book as Carhart and Chute's *Elements of Physical Science*. Individual note-books on experiments should be kept and presented at the examination. Preparation involves a course of study for one year, five hours a week, two periods of which should be given to work in the laboratory.

22. Chemistry. Laboratory work should be made an essential feature of the study, and this may well take one-half of the total time assignment. Careful and systematic notes of his individual work should be made by the student. Some work in quantitative experiments is recommended as being extremely desirable both for training and in order to illustrate the fundamental laws. Purely descriptive work may better be limited to comparatively few elements and compounds rather than be extended to a larger list with resulting confusion to the student. Time requirement, not less than five hours a week throughout one year.

23. Zoology: The candidate is expected to have a good general idea of animal life and a special knowledge of a number of representative forms gained through laboratory work. At least a year, five recitations a week, should be spent in preparation for this examination.

24. Botany: The candidate is expected to have a good general knowledge of plant life and a special knowledge of representative flowering plants gained through laboratory work. He

should be acquainted with both structure and classification. He must present a note-book recording the details of his work in the laboratory and illustrated with original drawings of plant structure. At least one year, five hours a week, should be spent in preparation for this examination.

Other Sciences: An equivalent amount of work in other natural sciences will be accepted in place of those named, and the examination given accordingly. But all science work must involve thorough laboratory training, and note-books must be presented as evidence of the kind of work done. The character of the work is of more importance than the nature of the subject matter. The aim should be to give the student a general knowledge of the subject by using a good text-book and by acquiring as much information at first hand as possible. The laboratory work should develop independent thought and should not be merely the examination of specimens to verify or illustrate text-book statements.

THEORY OF MUSIC

25. Harmony: Practice in writing intervals; melodic and rhythmical construction; practical applications. A modern text-book should be used. Credit will be given in proportion to the time spent in preparation.

26. Counterpoint: The species of strict counterpoint; canon; melody; simple forms of composition. Credit will be given in proportion to the time spent in preparation.

ADMISSION TO ADVANCED STANDING

Students may be admitted to advanced standing either by examinations, or upon certificate from another college of approved grade. Blank forms of application for admission to advanced standing may be obtained from the Registrar. In every case a letter of honorable dismissal must be presented from the college previously attended, and an official statement of the grades attained in the several college studies.

SPECIAL STUDENTS

Persons over twenty years of age who wish to attend the College for special work in any department without becoming candidates for a degree, may be accepted by the Faculty as "special students" upon recommendation of the head of that department in which they wish to do the special work. They must meet the entrance requirements in their special subjects, must carry successfully the work which they undertake, and must take the required final examinations.

ADMISSION WITH CONDITIONS

In some cases students who have not had all their preparatory work may be admitted conditionally, and may remove these conditions by outside work while pursuing their college course. Students conditioned in entrance work must remove their entrance conditions as rapidly as practicable. No student will be admitted who has more than twelve hours (three entrance credits) of such entrance conditions.

REQUIREMENTS FOR GRADUATION

The college course extends over a period of four years, the year being divided into two semesters, or eight semesters in all. Candidates for graduation are required to have completed satisfactorily *one hundred and twenty-four* "hours" of college work, part of which is definitely prescribed, part devoted to a major study, and part freely elective. The unit of the work, or "hour," represents one exercise per week for a semester, two hours of laboratory work counting for one exercise. All students except special students (see page 45) are required to take at least twelve hours of work per week, and no student may take more than seventeen hours except by express permission of the Faculty.

Every hour for which credit is given is understood to represent approximately for the average student three hours of actual work per week throughout the semester, one hour being allotted to the recitation or lecture and two hours to study or reading on the part of the student.

PRESCRIBED WORK

All students, candidates for a degree, are required to complete Biblical Literature 1 and 2; English 1 and 5; Philosophy 3 and 4; four semesters of Physical Training; and in addition, at least eighteen hours in each of the first three departmental groups.

Candidates for the degree of Bachelor of Arts must complete either Greek 1, and 2 or 4; or Latin, 1, 2, and 3; and one additional year of foreign language (Greek, Latin, French, or German) beyond that required for entrance.

Candidates for the degree of Bachelor of Science must complete at least two years of French or German beyond

that required for entrance, and at least six hours in each of two laboratory sciences, (Physics, Chemistry, Biology) in addition to the work in his major study.

A candidate for the degree of Bachelor of Music must complete at least two years of French or German beyond that required for admission, all the work, thirty hours, offered in Theory of Music, and the requirements in any one of the departments of applied music in Whitman Conservatory of Music. These requirements go fully into effect for students entering after June, 1911.

English 1 and 5 and Biblical Literature 1 and 2 must be taken in the Freshman year; all other prescribed work should be completed, so far as possible, before the end of the Sophomore year, so as to leave the last two years free for the major study and such electives as may be necessary to complete the number of hours required for graduation.

MAJOR STUDY

Before the end of the Freshman year each student must select a major study in which at least three years of work must be done to obtain a degree. Candidates for the degree of Bachelor of Arts may choose major studies in the following departments: Philosophy, History, Political Science, Greek, Latin, French, German, English, Mathematics. Candidates for the degree of Bachelor of Science may choose major studies in the departments of Political Science, Mathematics, Physics, Chemistry, Biology, Engineering.

Immediately after selecting his major study the student must consult the head of the department in which the major study is taken for advice concerning the choice of appropriate electives. In general, the student will re-

gard his major professor as his counselor on all points touching his college work.

A student may not change his choice of a major study after it has been duly approved, without special permission of the Faculty in response to a written petition, and in no case after the beginning of the year in which he expects to take his degree.

ELECTIVE WORK

In addition to the prescribed work, the major study, and the specific requirements of the several degrees, the student must choose enough work from that offered in any department or departments to complete 124 hours. The only limitations placed upon this election are those of the schedule and of the previous work of the student.

RULES GOVERNING CLASSIFICATION

A classification blank, duly filled out and enumerating all the courses which the student wishes to take during the semester must be filed with the Chairman of the Classification Committee before work is done. This must be approved by the major professor and by the classification committee. No credit will be given for courses not properly elected.

After a study has been elected and approved, it may not be dropped without special permission of the Classification Committee. All requests for permission to drop a study must be made in writing on specially provided blank forms and in accordance with the rules printed thereon.

The maximum number of hours per week which a student may elect without special permission is seventeen, and the minimum twelve for all students except those classified as "special," or "admitted with conditions." As a rule, permission to carry more than eighteen hours of

work is granted only when such extra work is necessary to enable the student to be graduated with his class, and then only in case the work of the previous semester has been of high grade.

DEGREES

The College offers to its undergraduates three degrees, based upon the character of the work done in preparation, namely, Bachelor of Arts, Bachelor of Science, and Bachelor of Music. The specific requirements for them are given on pages 46 and 47.

The degrees of Master of Arts and Master of Science may be conferred upon persons holding the corresponding bachelor's degree who have complied with the following requirements:

A graduate of Whitman College, or by special vote of the Faculty, a graduate of another institution of equal standing, may receive the master's degree upon completion of one year, including not less than twenty hours of advanced work, in actual residence. This work, to be determined after consultation with the professors under whose direction it is to be done, may be taken in not more than two departments. At least twelve hours must be taken in the major study. Less than eight hours in any study will not be credited towards the degree.

Any person who desires to become a candidate for the master's degree must register regularly in the College and file with the Chairman of the Committee on Degrees an application for candidacy not later than October 15 preceding the commencement at which the proposed degree is to be taken. This application should state the degree which the applicant already holds, when and where it was taken, and the work he wishes to pursue. If he is a graduate of another institution, he must describe the courses he has had in preparation for his pro-

posed work, and the record of his undergraduate work must be certified by the recording officer of the institution where it was taken. Every candidate must present his thesis to his major professor not later than May 15. The candidate must file a typewritten or printed copy of his thesis in the college library before the degree is granted.

The master's degrees will be conferred for work in absence upon graduates of Whitman College only, not earlier than two years after graduation. The candidate must give evidence of the satisfactory completion of the equivalent of twenty hours of advanced work, and must present a satisfactory thesis. His work is to be determined after consultation with the heads of the departments in which the work is to be done. He will in every case be examined upon the work pursued, and his thesis must be presented not later than May 15. He must make application to become a candidate as in the case of the resident student.

Any one upon whom any of the above degrees is conferred will receive a diploma in evidence of the degree. The charge for the bachelor's diploma is \$5.00, for the master's examination and diploma, \$10.00.

No degree will be awarded, nor will a diploma be issued to any person whose bills with the Bursar have not been settled.

DEGREES WITH DISTINCTION

The baccalaureate degrees are conferred *cum laude* upon students who attain an average of eighty-five per cent but less than ninety in the work of their college course; *magna cum laude* in like manner upon those who attain ninety per cent but less than ninety-five; *summa cum laude* upon those who attain ninety-five per cent or above. No student who receives advanced standing amounting to more than sixty-four hours is eligible to

honors at graduation; students who are admitted with one year of advanced standing are required to attain eighty-six, ninety-one, and ninety-six per cent, respectively, for the three grades of honors; those who are admitted with two years of advanced standing must attain respectively eighty-seven, ninety-two, and ninety-seven per cent. The distinctions are indicated upon the diplomas, and are announced in the official publications of the College.

FINAL HONORS IN THE MAJOR STUDY

Final honors for special proficiency in major studies are awarded on the basis of special examinations to candidates for graduation who have attained an average of eighty-five per cent or more for three years, subject to the following regulations:

Every candidate for final honors must pass with distinction the regular examinations in the courses in which he is registered, and must pass, near the close of his senior year, a special examination in his major study, conducted by a committee of the Faculty, to test the range and accuracy of his knowledge of the subject in which he offers himself for honors. This examination will be based upon outside reading directed by the head of the department in which honors are taken. Candidates for final honors must present a written application to the Secretary of the Faculty not later than October 15 in their Senior year; no application will be granted without the recommendation of the instructors in the department concerned. Each candidate, before his application will be considered, will be required to have ninety-four hours of credit and to have completed or to be taking all of his prescribed work, including his major work, subject to the approval of a committee consisting of the major professor and the Classification Committee.

Candidates for final honors may receive credit of six hours for their honor work.

SPECIAL REGULATIONS

ORDER AND DISCIPLINE

The College aims to develop in each student a sense of personal responsibility for good order and good scholarship. Each student upon matriculation is assigned to the personal supervision and friendly care of one of the deans, who acts as his adviser through his Freshman year. When he selects his major study at the end of the Freshman year, the student comes into a similar relationship with the head of that department, his major professor, who will be his adviser and friend for the remainder of his course. Frequent reports are called for upon the standing and scholarship of all students, and unsatisfactory conditions are immediately referred to the dean or major professor. Those who will not co-operate with the Faculty in promoting the reasonable life of the College, or those whose work fails to reach the standard of scholarship required will be dismissed. Good conduct and faithful application to study are expected from every student.

ATTENDANCE

Regular attendance is required at all college exercises; absence is allowed only for urgent reasons. When a student has been absent from a class he must present his excuse to the instructor of that class at the next recitation. An unexcused absence will be reported by the instructor to the proper officer of discipline. All work lost by absence must be made up to the satisfaction of the instructor, who may require special examinations during the semester or at its close, or impose other requirements at his discretion.

RESIDENCE

Every young woman who is not a resident of Walla Walla is required to live in either Reynolds Hall, Prentiss Hall, or Green Cottage, unless she desires to live with relatives in the city, or unless her financial condition is such that it is necessary for her to live elsewhere in order to support herself. *Residence outside the college dormitories requires the express permission of the Dean of Women.*

RULES RELATING TO EXAMINATIONS, CONDITIONS, AND FAILURES

1. Students are required to take the examinations in all studies elected except those which have been dropped by permission of the Classification Committee.

2. No student absent from a regular examination without excuse from the President is allowed to take such omitted examination before the next regular examination in that course.

3. Students will in no case be examined before the time set for the regular examination of the class in which the work was done.

4. A student reported as conditioned in any subject must remove the condition during the semester following that in which it was incurred, or else he will be regarded as having failed.

Not more than one examination is given in any one semester for the removal of conditions in any one subject; but conditions incurred during the second semester may at the discretion of the instructor be removed immediately before the opening of the first semester of the following college year. All conditions removed are recorded with a grade of 70 per cent.

5. If a student is reported failed in any subject without mitigating circumstances, he can receive no credit

for that subject unless it has been again elected and pursued as though it had not been taken before.

DIVISION OF CLASSES

Students are known as Freshmen until they have received 28 hours of college credit; those having 28, but less than 62 hours, are known as Sophomores; those having 62, but less than 94 hours, are known as Juniors; those having 94 hours or more are known as Seniors. In order to retain his class rating in the second semester a student must have increased the above number of hours for the respective classes by 13.

REPORTS AND GRADING

As soon as possible after the end of each semester a report is sent to the parents or guardian of each student, indicating the quality of work which he has done in each study pursued. The work is graded upon the scale of 100. Those who attain a grade of 70 per cent or more in any study are recorded as having completed it satisfactorily. Those who receive less than 70 per cent but not less than 50 per cent are recorded as conditioned. Those who attain less than 50 per cent are recorded as failed, and no credit may be granted in such study until it has been again pursued under the direction of an instructor.

Any instructor, with the approval of the President, may at any time exclude from his class a student who in his judgment has wantonly neglected the work of that class. Such a student will be recorded as having failed in that subject.

UNDERGRADUATE HONORS

Members of the Junior, Sophomore, and Freshman classes who during the year complete not less than thirty hours of college work, attaining in it an average of ninety per cent or above, will be granted undergraduate honors,

and this fact, together with the departments in which they are taking their major studies, will be announced at Convocation and in the official publications of the College.

PUBLIC WORSHIP

Daily religious exercises are held in Whitman Memorial Chapel at 10 a. m. Attendance is required of all students. Reading of the Scriptures, prayer, and singing, with an occasional address or public lecture, constitute the morning service.

The selection of the church which he will attend is left to each student, but regularity in attendance at Sunday morning service is strongly urged upon all. New students, on registering, are asked to record the name of the church which they have been in the habit of attending. A list of those who express a preference for a particular church is sent at once to the pastor of that church with the request that he exercise pastoral supervision over them. The pastors of all churches are welcome to the morning chapel exercises and to all religious services of the College, and are earnestly invited to co-operate in promoting a true and simple Christian spirit.

DEPARTMENTS AND COURSES OF STUDY

No one of the courses here outlined will be given unless it has been chosen by at least three students. The choice of studies will necessarily be affected by the previous work done and by the limitations of the schedule. Courses may be assigned between the hours of 8 a. m. and 6 p. m. on every day but Sunday. Seminaries may be held in the evening.

Wherever the term "hour" is used in the following pages it is to be understood as hour of credit; in laboratory courses it involves two hours of work.

GROUP I. PHILOSOPHY, HISTORY, POLITICAL
SCIENCE

CHARLES GROVE HAINES, Acting Dean

DEPARTMENT OF PHILOSOPHY

*President PENROSE, Acting Professor BROOKS

Courses 3 and 4 of this department are required of all candidates for baccalaureate degrees.

Students who select Philosophy as their major study will take all the courses at present offered.

1. **Introduction to Philosophy.** Logic, deductive and inductive. Text-book and lectures, with frequent written exercises.
Three hours, first semester. (M. W. F., at 8:00)
2. **Psychology.** Text-book, lectures, and collateral reading. Ladd, *Outlines of Descriptive Psychology*.
Three hours, second semester. M. W. F., at 8:00)
3. **Theism.** A careful study of the reasons for belief in God and of the grounds of faith. Lectures and assigned

*For a part of the year 1911-12, President Penrose has been relieved of professorial duties; in his absence his work in the department is carried by Dr. Brooks.

readings. Two hours of credit are given for the three hours of recitation.

Two hours of credit, first semester. (M. W. F., at 9:00)

Open to all students.

Required of all candidates for the baccalaureate degrees.

4. **The Philosophy of Religion.** A study of religious experience, followed by careful discussion of the sources, content, and internal and external evidences of Christianity. Lectures and assigned readings. Two hours of credit will be given for three hours of recitation.

Two hours of credit, second semester. (M. W. F., at 9:00).

Open to students who have completed Course 3.

Required of all candidates for the baccalaureate degrees.

5. **History of Philosophy.** Text-book, lectures, and assigned readings. The development of philosophy among the Greeks, the Alexandrian Christian philosophy, scholasticism, and the chief philosophies of the modern period will be studied, with readings from the chief authors.

Weber, *History of Philosophy*.

Three hours, both semesters. (T. Th. S., at 9:00)

Open to students who have completed Courses 1 and 2.

6. **Readings in Philosophy. A Seminar.** All the dialogues of Plato are read in English and topics for investigation are assigned to each member of the class.

Two hours, both semesters. (T., 7:00 to 9:00 p. m.)

Open to students who have completed Course 2.

Alternate with Course 7.

- [7. **Ethics.** The nature, standards, and problems of Conduct are carefully discussed. Text-books, lectures, and assigned readings. Credit will not be given for less than two semesters of work.

Mackenzie, *Manual of Ethics*; Plato, *Republic*; Spencer, *Data of Ethics*.

Two hours, both semesters. (T., 7:00 to 9:00 p. m.)

Open to students who have completed Course 2.

Omitted in 1912-13. Alternate with Course 6.]

9. **From Locke to Hume.** The development of English philosophy in the Eighteenth Century. Readings and lectures. Two hours, both semesters.

Open to students only by express permission of the instructor.

EDUCATION

President PENROSE

1. **History of Education and Pedagogy.** The development of education is traced from the earliest times to the present day. Text-book, lectures, and readings. Each member of the class is required to present a thesis or a carefully prepared criticism of some book on an educational subject.

Three hours, first semester. (T. Th. S., at 8:00)

Open to students at the discretion of the instructor.

DEPARTMENT OF HISTORY

Professor LYMAN

Students who select History as their major study will be expected to take all the courses offered, and in general in the following order: Courses 1 and 10 in the Freshman year; Courses 3 and 4 in the Sophomore year; Courses 5, 6, 7, 8, and 11 in the Junior and Senior years.

1. **History of Rome.** A study of the history from the earliest times to the fall of the Western Empire. Special stress is laid upon the growth of Roman law and institutions, expansion and the government of the provinces, social conditions in republican and imperial times, the rise of Christianity, and the causes for the fall of the Western Empire. Lectures, text-book work, assigned readings, and reports.

Grandrud, *Roman Constitutional History*.

Three hours, first semester. (T. Th. S., at 10:15)

Open to all students.

10. **Mediaeval History.** The period from Clovis to the Reformation. The aim of the course is to present the events, ideas, and institutions from which the social, political, and intellectual life of the modern nations have arisen, and out of which modern governments have been formed. Lectures, text-books, and assigned themes.

Three hours, second semester. (T. Th. S., at 10:15)
Open to all students.

3. **English Political History.** Special attention is given to such topics as the establishment of Parliament, the downfall of feudalism and the English Revolution. Lectures, recitations, and reports embodying the results of investigation of assigned topics.

Three hours, first semester. (T. W. F., at 3:15)
Open to all students.

4. **The French Revolution.** A detailed study of the causes, principles, and events connected with the downfall of absolutism and the rise of political liberty. Lectures, recitations, and reports.

Three hours, second semester. (T. W. F., at 3:15)
Open to all students.

5. **Political and Constitutional History of the United States.** This course includes the history from Colonial times through the period of reconstruction. It includes the study of the formation of the Constitution, the origin and development of political parties, the character and effects of the great political issues. Supreme Court decisions are analyzed and are made the basis of thesis work by the class. Lectures, text-books, and theses.

Three hours, both semesters. (T. Th. S., at 8:00)
Open to all students.

6. **The Nineteenth Century in Europe.** A study of the events of the century with special reference to the social, economic, and industrial conditions, and the connection of European history with American. Lectures, text-books, and investigations of assigned topics.

Three hours, first semester. (T. Th. S., at 11:15)
Open to students who have completed Courses 3 and 4.
Alternate with Course 8.

- [7. **The Reformation.** An analysis of the political, intellectual, and religious conditions preceding the sixteenth century, and a study of the foundations of the several Protestant Churches resulting from the work of the

great reformers. Lectures, text-books, and reports upon assigned topics.

Walker, *The Reformation*.

Three hours, second semester. (T. Th. S., at 11:15)

Open to students who have completed Courses 3 and 4.

Omitted in 1912-13. Alternate with Course 11.]

- [8. **Civil War and Reconstruction.** A detailed study of the political and constitutional principles involved in the periods indicated. So far as possible, original sources will be used for research and reference. Text-books, lectures, discussions, and reports on assigned reading.

Three hours, first semester. (T. Th. S., at 11:15)

Open to students who have completed Course 5.

Omitted in 1912-13. Alternate with Course 6.]

11. **History of the Pacific Coast.** The course will cover the eras of discovery, treaty-making, and settlement, and the recent period of progress and development. Lectures, supplemented by collateral readings, investigation of original sources, and theses.

Three hours, second semester. (T. Th. S., at 11:15)

Open to students who have completed Course 5.

Alternate with Course 7.

DEPARTMENT OF POLITICAL SCIENCE

PROFESSOR HAINES, MR. HAHN

Students who select Political Science as a major study will be required to complete Economics 1 and 2 and Political Science 1 and 2, and at least twelve hours to be chosen from the remaining courses offered in the department.

COURSES IN ECONOMICS

1. **Principles of Economics.** An introduction to the elementary principles of economics with particular reference to modern social and industrial problems.

Three hours, first semester. (T. Th. S., at 8:00)

Open to all students.

2. **Principles of Economics.** A continuation of Course 1. The application of elementary principles to concrete problems, as international trade, transportation, organizations of capital and labor, insurance, state control of business activities, and socialism.
Three hours, second semester. (T. Th. S., at 8:00)
Open to students who have completed Course 1.
4. **Money and Banking.** An advanced course dealing with the principles of money, currency, credit, and banking, including a survey of the financial history of the United States.
Three hours, first semester. (T. Th. S., at 10:15)
Open to students who have completed Course 1.

COURSES IN POLITICAL SCIENCE

1. **Comparative Government.** (a) An introduction to political science, including a consideration of the special significance of the terms state, government, law, rights, and sovereignty; (b) a comparative study of the governmental systems of England, France, Germany, and Switzerland. Constitutional and political changes in other countries are considered briefly. The course deals principally with the constitutions, organization of departments, political parties, and administrative practices.
Three hours, first semester. (T. Th. S., at 9:00)
Open to all students.
2. **American Government.** A study of the development of American political institutions and an analysis of the present system of government in the United States, under the several divisions, national, state, and local. Special attention is given to the customs and practices evolved in the actual operation of political institutions.
Three hours, second semester. (T. Th. S., at 9:00)
Open to all students.
6. **Municipal Government.** A study of municipal activities in the United States and the more important foreign countries. Special attention is given to the development of the city, relation of the city to the general govern-

ment, municipal organization, and the distinct functions of municipal government.

Three hours, first semester. (T. Th. S., at 10:15)

Open to all students except freshmen.

8. **Party Government in the United States.** The relation of the political parties to the framework of government; the development of party organization and machinery; the the national convention and campaign; state, local, and municipal party machinery; ballot reform, corrupt practises acts, and other methods of regulating and controlling party organizations.

Three hours, second semester. (T. Th. S., at 10:15)

Open to all students except freshmen.

3. **Elements of Law.** A brief sketch of the historical development of law, followed by a general view of the sources of law in force in the United States, and a systematic outline of the principal branches of law, public and private.

Two hours, first semester. (W. F., at 10:15)

Open to advanced students who have received the permission of the instructor.

4. **Commercial Law.** A study of the elementary principles of contracts, sales, bailments, insurance, negotiable paper, agency, partnership, and corporations. The aim of the course is to impart a knowledge of the law which will be of service in the affairs of business life.

Two hours, second semester. (W. F., at 10:15)

Open to students who have received the permission of the instructor.

7. **Political Theories.** An historical survey of the development of ideas regarding society, law, government, sovereignty, and rights. The political works of Plato, Aristotle, Cicero, Aquinas, Machiavelli, Bodin, Grotius, Hobbes, Locke, Montesquieu, Rousseau, and other writers on politics in ancient, mediaeval, and modern times will be selected for analysis and discussion.

Two hours, second semester.

Open to advanced students who have received permission of the instructor.

5. **Seminar in Political Science.** Papers, reports and general discussions upon current problems and political issues. One hour, both semesters.
Intended primarily for students who have selected Political Science as a major study. Other students may be admitted by special permission.

THEORY OF MUSIC

Professor BLUM, *Mr. WILLIAMS, *Miss GRANDBERRY, *Miss VAN
WORMER

The courses outlined below are elective for all students who are prepared to take them.

Candidates for the degree of Bachelor of Music are required to complete all the courses offered. For further requirements of this degree, see page 47.

Classes will not be formed for less than eight students without special permission of the President.

A limited amount of credit in advanced applied music will be counted towards graduation.

1. **Ear Training and Sight Singing.** Singing the scale from any given degree; intervals; chords; singing at sight, melodies and in parts.
Wuellner, *Sight Singing*.
Two hours, both semesters. The course is not credited towards a degree, but is required either before, or simultaneously with, Course 3.
3. **Harmony.** Intervals, scales, melodic construction and progression; principal triads, dominant seventh, secondary triads, modulation with triads and dominant seventh.
Two hours, both semesters. (M. Th., at 11:15)
Open to students, who have completed, or are taking, Course 1.

*Instructors in Whitman Conservatory of Music.

4. **Advanced Harmony.** Foreign tones; dominant ninth; secondary sevenths; altered and mixed chords.
Two hours, both semesters. (T. F., at 11:15)
Open to students who have completed Course 3.
5. **Counterpoint.** Simple Counterpoint; invention and choral figuration; double counterpoint, canon, and fugue.
Two hours, both semesters.
Open to students who have completed Course 4. Applicants for this work should be able to play upon some instrument, preferably the piano.
6. **Composition.** Construction of the homophonic song forms; dance forms, rondo, sonata.
Two hours, both semesters.
Open to students who have completed Course 5.
7. **Orchestration.** Study of the range, tone-quality, and volume of all orchestral instruments, and their use in the orchestra; the instrumentation and scoring of original compositions.
Two hours, both semesters.
Open to students who have completed Course 6.
8. **History of Music.** The study of sound as the material of music; varieties of scales; primitive music; the ecclesiastical scales; the rise and growth of polyphony; the history of notation, harmony, and counterpoint; the modern scale; modern music; opera and oratorio; the orchestra; biographies of eminent musicians. Text-book, readings, and book-reviews.
Baltzell, *History of Music*.
Two hours, both semesters. (M. Th., at 4:15)
Open to all students, but most valuable for those who have a good knowledge of harmony, counterpoint, and instrumental music.
9. **Ensemble.** The work in instrumental ensemble includes four and eight-hand piano playing, piano and stringed or other instruments, string quartette, orchestra, and study of the art of accompanying. Duets, trios, etc., will be studied and performed at pupils' recitals. In vocal ensemble, students have the benefit of the chapel choir, the two glee clubs, and the Choral Society.

GROUP II. LANGUAGE AND LITERATURE

NORMAN FRANK COLEMAN, Acting Dean

DEPARTMENT OF BIBLICAL LITERATURE

Professor WYLIE

All students except Special Students (see page 45) are required to complete in this department Courses 1 and 2.

1. **Old Testament History and Literature.** A general introduction to the literature of the Old Testament, and an outline study of the consecutive periods of Hebrew history in the Old Testament, including an outline study of the Prophetic books in their historical settings.

Two hours, first semester. (Three sections: W. F., at 9:00, 10:15, and 11:15)

Open to all students.

Required of Freshmen.

2. **New Testament History and Literature.** An historical introduction to the life and times of Jesus and an outline study of His life; early apostolic history with a general introduction to the books of the New Testament in their historical settings.

Two hours, second semester. (Three sections: W. F., at 9:00, 10:15, and 11:15)

Open to students who have completed Course 1.

Required of Freshmen.

3. **Greek Testament.** In the first semester a study of one of the synoptic gospels, in the second semester, selection from the Acts with one or more of the shorter epistles.

Two hours, both semesters. (Th. S., at 8:00)

Open to students whose knowledge of Greek will allow them to pursue it with profit.

4. **Elementary Hebrew.** A study of Harper's *Method and Manual*, and Harper's *Elements of Hebrew*. Selected readings from Samuel.

Two hours, both semesters. (T. Th., at 2:15)

Open to all students.

5. **Advanced Hebrew.** A study of Harper's *Elements of Hebrew Syntax*. Selected readings from Deuteronomy and the Psalms.
Two hours, both semesters. (M. W., at 2:15)
Open to students who have completed Course 4.
6. **English Bible.** Advanced work in the English Bible will be arranged for students who are prepared for it. The character of the course and the amount of credit allowed will be determined after the class has been organized.
Open to students who have completed Course 2.
7. **Greek Testament, Advanced Course.** Advanced work in Greek Testament will be arranged for students who are prepared to pursue it. The character of the course and the amount of credit allowed will be determined after the class has been organized.
Open to students who have completed Course 3.

DEPARTMENT OF GREEK

Professors ANDERSON and TODD

A major study in Greek includes courses 1, 2, 3, 7, 5, 9, 15. For a major study in the Classics see page 72.

Courses A and B, intended for students whose preparation for college has not included Greek, enable them to complete the prerequisites to Courses 1 and 2 in two years instead of three, receiving college credit for the work.

- A. **Elementary Greek.** The first semester is devoted to a mastery of the elements of the language; in the second, the class begins to read Attic prose, with practice in writing Greek.

Benner-Smyth, *Beginner's Greek Book*.

Four hours, both semesters.

Open to all students.

- B. Greek Reading and Composition.** The first semester is given to the reading of Attic prose writers and to exercises in composition; the second is given to Homer or to Attic poetry or prose. If Homer is omitted, provision is made for pursuing this study in connection with Course 1.

Four hours, both semesters.

Open to students who have completed Greek A or two years of preparatory Greek outside.

1. **Lysias, Xenophon, Plato, Lyric Poets.** Selected orations of Lysias, selections from Xenophon's *Memorabilia Socratis*, Plato's *Apology of Socrates*, and *Crito*, and parts of the *Phaedo*; Aristophanes's *Clouds* will be read in the original or in translation. Some time at the end will be given to elegiac and iambic poetry.

Three hours, both semesters. (T. Th. S., at 10:15)

Open to students who present three years of Greek for entrance.

2. **Prose Composition.** Study of syntax and idiom, with practice in writing connected discourse.

One hour, both semesters. (F., at 10:15)

Complementary to Course 1, and open to the same students.

3. **The Drama.** The aim of the course is to give chronologically a general view of the development of the Greek drama, by reading one play each of Aeschylus, Sophocles, Euripides, and Aristophanes, and by considering as far as time permits general topics relating to the theatre, the drama, and the authors.

Three hours, both semesters. (M. W. F., at 2:15)

Open to students who have completed Course 1.

7. **Epic and Lyric Poetry.** Selections from the *Odyssey* or the *Iliad* are read rapidly from a literary standpoint as well as with a view to the needs of persons intending to teach Greek. Some time is spent on the lyric poets, including Theocritus. For private reading throughout the year, selections from Lucian.

Three hours, first semester.

Open ordinarily to students who have completed Course 3; to others properly equipped upon application.

5. **The Historians.** The first third of the semester is devoted to selections from Herodotus, mainly the books dealing with the Persian Wars; the remainder of the time will be spent on Thucydides, books VI and VII, on the Sicilian Expedition. The examination includes the private reading mentioned under Course 7.

Three hours, second semester.

A continuation of Course 7, and open to the same students.

9. **Aeschines and Demosthenes.** The two orations on the Crown will be read with such studies in the history of the times as will give an intelligent basis for a critical consideration of the trial of Ctesiphon and the merits of the two orators.

Three hours, first semester.

Intended to follow Course 5, but open to those also who have completed two years of college Greek with credit.

15. **Plato's Republic.** A few lectures on pre-Socratic philosophy will be followed by as extensive reading in the *Republic* as the limits of the course will allow. For private reading, some brief manual on the history of Greek literature.

Three hours, second semester.

Open to students who have completed Course 9, and to others by permission of the instructor.

4. **History of Greek Literature.** A rapid survey of classical Greek literature by means of text-books, lectures, and the reading in English translation of works typifying the main authors in the several kinds of literature. On this reading short reports and one longer paper are required.

Three hours, second semester. But if there is a decided demand for the course it may be given in the first semester as well as in the second.

Open not only to students of Greek, but to all students of literature.

New Testament Greek. (Biblical Literature 3 and 7.) For details of these courses see announcement under Biblical Literature, pages 65 and 66.

DEPARTMENT OF LATIN

Professors RUBY and *PEPOON, Mrs. BROWN

Courses 1, 2, and 3 of this department are required of all candidates for the A.B. degree who elect Latin as their ancient language.

Students who select Latin as their major study will take Courses 1, 2, and 3 in the first year, 6, 7, and 8 in the second year, and 9, 10, 11, and 12 in the third and fourth years; in addition a limited amount of original work may be expected in the senior year.

For a major study in the Classics see page 72.

1. **Cicero and Livy.** Cicero's *De Amicitia* or *De Senectute* and Livy, Book I or selections from Books XXI and XXII; translation; syntax; collateral reading in Roman history. Three hours, first semester. (T. Th. S., at 9:00)
Open to students who present four years of Latin for entrance. To be taken in connection with Course 3.
Required of candidates for the A.B. degree who elect Latin as their ancient language.
2. **Horace.** *Odes* and *Epodes*; special attention is given to finished translations; prosody; Roman antiquities. Three hours, second semester. (T. Th. S., at 9:00)
Open to students who have completed Course 1. To be taken in connection with Course 3.
Required of candidates for the A.B. degree who elect Latin as their ancient language.
3. **Prose Composition.** A systematic study of syntax, with particular reference to the dependent sentence. Practice in writing detached sentences and connected discourse.
Gildersleeve-Lodge, *Latin Grammar*.
Gildersleeve-Lodge, *Latin Prose Composition*.
One hour, both semesters. (W., at 9:00)
Open to students who present four years of Latin for entrance. It is to be taken in connection with Courses 1 and 2.

*Absent on leave.

Required of candidates for the A.B. degree who elect Latin as their ancient language.

4. **Sight Translation.** Selections from Caesar's *Civil War*, Nepos, Sallust, Cicero, Suetonius, Ovid, Vergil, and other authors. A course designed to train the student to read Latin with ease and rapidity. Little outside work is expected, and credit for only one hour is allowed for two hours of recitation.

One hour, both semesters. (T. Th., at 8:00)

Open to students at the discretion of the instructor, and especially recommended to those who are taking Courses 1 and 2.

5. **Private Life of the Romans.** Text-book work, lectures, assigned reading, and reports.

Johnston, *Private Life of the Romans*.

One hour, both semesters. (W., at 8:00)

Open to all students. Knowledge of Latin, though desirable, is not essential.

13. **Latin Literature in English.** A rapid study of the various types of the literature by means of lectures and the reading of standard translations. Some attention is devoted to the influence of the Latin writers upon modern literature.

Mackail, *Latin Literature*.

Two hours, both semesters.

Open to all students.

6. **Tacitus.** *Agricola* or *Germania* and about two books of the *Annals*. Collateral reading and reports upon the history and institutions of the early Roman Empire; study of the author's style and latinity.

Three hours, first semester. (T. Th. S., at 11:15)

Open to students who have completed Course 2.

7. **Roman Comedy.** Careful study of one play each of Terence and Plautus; rapid reading of other plays; prosody; lectures on the history and representation of the Roman drama.

Three hours, second semester. (T. Th. S., at 11:15)

Open to students who have completed Course 6.

8. **Advanced Composition.** Studies in style and in comparative grammar. Practice in writing connected discourse, including original themes. The course may be taken two years in succession.
Two hours, both semesters. (W. F., at 11:15)
Open to students who have completed Course 3.
9. **Roman Satire.** Critical study of the Satires of Horace and Juvenal; collateral reading in the works of Persius, Petronius, and other authors; special attention is given to the study of antiquities.
Three hours, first semester. (T. Th. F., at 1:15)
Open to students who have completed Course 7.
Alternate with Course 11.
10. **Letters of Cicero and Pliny.** The letters are studied both to give an idea of epistolary style, and to illustrate the private life of the Roman in republican and imperial times.
Three hours, second semester. (T. Th. F., at 1:15)
Open to students who have completed Course 7.
Alternate with Course 12.
- [11.—**Catullus and the Elegiac Poets.** Selections are read illustrating especially the literary qualities.
Three hours, first semester. (T. Th. F., at 1:15)
Open to students who have completed Course 7.
Omitted in 1912-13. Alternate with Course 9.]
- [12. **Roman Literary Criticism.** The authors studied include Quintilian, *Institutio Oratoria*, Book X; Horace, *Epistles*; and Tacitus, *Dialogus de Oratoribus*. Lectures, and reports by members of the class upon assigned topics.
Three hours, second semester. (T. Th. F., at 1:15)
Open to students who have completed Course 7.
Omitted in 1912-13. Alternate with Course 10.]
- [15. **Lucretius.** Interpretation of three books of the *De Rerum Natura* with outline study of other books. Lectures and reports upon the Epicurean system.
Three hours, second semester.
Open to students who have completed Course 7.
Omitted in 1912-13.]

MAJOR STUDY IN THE CLASSICS.—To accommodate those students who desire a somewhat more general course than the major study offered in Greek or Latin, these departments co-operate in offering a major study in what has been known for many years as the Classical Course.

A major study in the Classics includes Courses 1, 2, 4, and either 3, or 7 and 5 in the Department of Greek, Courses 1, 2, 3, 6, and 7, and 8 in the Department of Latin, and in addition at least six hours of other work in Greek or Latin.

DEPARTMENT OF ROMANCE LANGUAGES

Professor COOPER

Students who elect a major study in this department are required to take Courses 2, 3, 4, and twelve hours from 8, 12, 15, and 16. For the present only three hours of work per semester will be given from Courses 8, 12, 15 and 16, and three hours from Courses 10, and 13.

1. **Elementary French.** Grammar, composition, reading, and conversation. Pronunciation is taught phonetically. Several short stories, easy comedies, and poems are read as a basis for grammatical drill, composition, and conversation.

Fraser and Squair, *A French Grammar*.

Three hours, both semesters. (Two divisions; T. Th. S., at 11:15, and M. W. F., at 3:15)

Open to all students.

2. **Reading, Grammar, Composition, and Conversation.** Reading of texts of moderate difficulty; study of idioms; sight translation; composition and conversation based on texts read; continuous drill in the use of regular and irregular verbs, and in pronunciation.

Three hours, both semesters. (M. W. F., at 2:15)

Open to students who have completed Course 1.

3. **Advanced French.** Reading of a considerable number of the more representative prose works, plays, and poetry, mainly from the modern authors; a large amount of practice in conversation; occasional essays in French. Three hours, both semesters. (M. W. F., at 1:15)
Open to students who have completed Course 2.
4. **Advanced Composition.** The work in composition is accompanied by a careful review of syntax. A text-book is used at first as a preparation for the writing of original themes in the latter part of the course. Considerable outside reading from representative writers is required as a basis for free reproduction and conversation.
Two hours, both semesters. (T. Th., at 2:15)
Open to students who have completed Course 2.
12. **The French Drama.** Lectures, private reading, and reports on the history of the French drama. Representative works of Corneille, Racine, Molière, Regnard, Le Sage, Voltaire, Marivaux, Beaumarchais, and the later dramatists are read and critically analyzed in class. Other dramas and works of criticism are read outside the class and reported upon.
Three hours, both semesters. (M. W. F., at 11:15)
Open to students who have completed Course 3.
Not given in the same year as Courses 15 and 16.
15. **Prose Writers of the 17th and 18th Centuries.** Lectures, private reading, and reports upon the history and social conditions of these periods, accompanied by the critical study of representative masterpieces.
Three hours, first semester (M. W. F., at 11:15)
Open to students who have completed Course 3.
Not given in the same year as Course 12.
8. **Old French.** Reading of texts; study of Old French dialects, and of the literature prior to the sixteenth century. Lectures, collateral reading, and reports.
Three hours, both semesters.
Open to students who have completed Courses 3 and 12 or 15 and 16.

17. **History of French Literature.** A course designed to afford students of literature, even though they may have no knowledge of the French language, an opportunity to become acquainted with the character and development of the literature. Lectures, supplemented by outside reading and reports.
One hour, both semesters. (M., at 10:15)
Open to all students, and especially recommended to those whose major study is in the department.
16. **The Modern French Novel.** The development of the French novel is briefly traced by means of lectures, readings, and reports. Certain representative works of the leading modern novelists are read and critically studied in the class, and others are read outside and reported upon.
Morillot, *Le Roman en France depuis 1610*.
Three hours, second semester. (M. W. F., at 11:15)
Open to students who have completed Course 3.
Not given in the same year as Course 12.
10. **Elementary Spanish.** Grammar, composition, and reading. Special attention is given to the acquiring of a good pronunciation. Some practice is had in conversation. A large amount of reading is required, a considerable portion of which is at sight.
Wagner, *Spanish Grammar*; selected editions of texts read.
Three hours, both semesters. (T. Th. S., at 10:15)
Open to advanced students of language.
13. **Elementary Italian.** A study of the elementary principles of grammar with constant drill in pronunciation, composition, and conversation. A large amount of reading from modern authors is required.
Grandgent, *Italian Grammar*; Bowen, *Italian Reader*; selected texts of authors read.
Three hours, both semesters.
Open to students upon consultation with the instructor

DEPARTMENT OF GERMAN

Professor KROESCH

Students who choose German as their major study are required to take Courses 2, 3, and 4, and twelve hours from 7, 8, 10, and 11.

Not more than seven hours will be given in any one semester from Courses 7, 8, 10, 11, and 12.

1. **Elementary German.** Grammar, composition, reading, conversation. Several texts are read as a basis for grammatical drill.

Becker-Rhoads, *Elements of German*.

Three hours, both semesters. (M. W. F., at 10:15)

Open to all students.

2. **Reading, Grammar, Composition.** Reading of moderately difficult prose with emphasis on the elementary principles of syntax; study of word formation and the relationship of English and German words; composition based on the texts used.

Three hours, both semesters. (M. W. F., at 3:15)

Open to students who have completed Course 1.

3. **Advanced German.** Reading of prose works, plays, and poetry, mainly of the more modern works; occasional essays in German are required.

Three hours, both semesters. (M. W. F., at 1:15)

Open to students who have completed Course 2.

4. **Advanced Composition.** Besides composition of moderate difficulty, the work consists of free reproduction of texts read, discussions of the principles of syntax and elements of style, and drill in conversational German. The course is particularly recommended to students who expect to take advanced work in German.

Two hours, both semesters. (T. Th., at 2:15)

Open to students who have completed Course 2.

- [7. **Goethe.** The author's works, including the first part of *Faust*, are taken up chronologically. Occasional reports on themes are assigned in connection with the reading.

Three hours, both semesters. (T. Th. S., at 11:15)

Open to students who have completed Course 3.

Omitted in 1912-13.]

8. **Middle High German.** The work is largely linguistic, with lectures on Middle High German literature. Michels, *Mittlehochdeutsches Elementarbuch*. Three hours, both semesters. Open to students who have completed Course 7 or Course 10.
10. **Lessing and Schiller.** A study of the classical period in connection with representative works of these authors. Three hours, both semesters. (T. Th. S., at 11:15) Open to students who have completed Course 3.
12. **History of German Literature.** Lectures, supplemented by Kluge's *Deutsche National-Literatur* or Priest's *History of German Literature* as text-book. One hour, both semesters. (T., at 10:15) Open to students who have completed Course 3. Especially recommended to students taking a major study in German.
13. **The Drama of the Nineteenth Century.** Some of the representative works of Kleist, Hebbel, Anzengruber, Grillparzer, Hauptmann, and Sudermann will be read. Two hours, both semesters. Open to students who have completed Course 7 or Course 10.
14. **German Conversation.** A course designed for those who desire more opportunity for conversation than is afforded in other courses. Two hours, both semesters. Open to students who have completed Course 3.

MAJOR STUDY IN MODERN LANGUAGES—The Departments of Romance Languages and German offer a combined major consisting of Courses 2, 3, and 4, in the Department of Romance Languages and Courses 2 and 3 in the Department of German, or Courses 2, 3, and 4 in the Department of German and Courses 2 and 3 in the Department of Romance Languages. Students who elect this major study are advised to take also Course 10 in the Department of Romance Languages.

DEPARTMENT OF ENGLISH

Professors COLEMAN, BOAS, *Miss FRAZER, Miss MCNAUGHTON

Courses 1 and 5 are required of all candidates for the baccalaureate degrees. Course 1 must be taken by Freshmen.

Students who select English as their major study will take also Courses 8, or 9 and 13; 10, 11, or 12; 14 or 15.

Only nine hours of work will be offered in any one semester from Courses 8, 9, 10, 11, 12, 13, 14, and 15.

1. **Written Composition.** Lectures, conferences, and written exercises. Three short themes are written each week; or at the will of the instructor, two or more of these may be replaced by one longer composition. The themes are criticised in detail by the instructor. Illustrative reading in the main forms of literary composition is required. Two hours of credit are given for the three hours of recitation.

Two hours of credit, both semesters. (M. W. F., at 8:00)

Open to all students.

Required of all Freshmen.

2. **Advanced Composition.** A further course in practical composition for students who desire special training. Short daily themes or longer weekly compositions are written throughout the year. The student is encouraged to develop his aptitudes with a view to possible literary work in after life. Each student's work is subject to the criticism of the class as well as to that of the instructor. Regular conferences are held.

Two hours, both semesters.

Open to students who have completed Course 1, and who have received permission from the instructor.

5. **Oral Composition.** This course combines with Course 1 in the study and application of the principles of composition. As much practice as possible is given each

*Resigned.

student in speaking and reading before the class; there are systematic exercises in voice training, and the student's work is discussed with the teacher in conference.

One hour, both semesters.

Open to all students.

Required of all Freshmen.

4. **Argumentation.** A study of the processes of argument by analysis and construction; writing of arguments, oral debates, individual criticisms, and interviews.

Foster, *Argumentation and Debating*.

Two hours, first semester.

Open to students who have completed Course 5.

6. **Public Speaking.** A study of the chief forms of public speaking, with the analysis of master-orations and practice in the preparation and delivery of speeches.

Two hours, second semester.

Open to students who have completed Course 5.

7. **A General View of English Literature.** (a) A history of literature from Anglo-Saxon times to the present. (b) A study of literary types. Representative poetic and prose writings are studied for the purpose of making clear the nature of the various literary forms: epic, allegory, ballad, lyric, sonnet, play, essay, novel.

Three hours, both semesters. (The whole class meets M., at 9:00; for the remaining two hours, two sections, T. Th., at 8:00, and W. F., at 10:15)

Open to students who have completed Course 1.

8. **Shakespeare.** Six plays are studied.

Three hours, both semesters. (M. W. F., at 3:15)

Open to students who have completed Courses 1 and 7.

- [9. **Elizabethan Drama—1559-1642.** After a survey of the beginning of the drama in England, a careful study is made of the plays of Marlowe, Shakespeare, Jonson, Beaumont and Fletcher. The course aims to trace the history and discover the principles of dramatic construction.

Three hours, first semester. (M. W. F., at 3:15)

Open to students who have completed Courses 1 and 7.

Omitted in 1912-13.]

- [13. **The Novel.** A course intended to combine with the course in the drama as dealing with a second important literary type. Beginning with the Elizabethan romances, the course follows the novel through its rise in the eighteenth century to its culmination in the nineteenth. Some attention is paid to the best contemporary fiction. Three hours, second semester. (M. W. F., at 3:15)
Open to students who have completed Courses 1 and 7.
Omitted in 1912-13.]
10. **Eighteenth Century Literature.** Prose and poetry from Dryden to Burns. The rise of the essay will be traced and a study of the early development of the novel will be made.
Three hours, first semester. (M. W. F., at 2:15)
Open to students who have completed Courses 1 and 7.
11. **Nineteenth Century Prose.** The principal prose writers of the Romantic and Victorian periods; the novel as interpreting modern life is dealt with through lectures and required reading, but the essays of Lamb, DeQuincey, Hazlitt, Macaulay, Carlyle, Ruskin, Arnold, and Stevenson receive the principal attention of the class.
Three hours, second semester. (M. W. F., at 2:15)
Open to students who have completed Courses 1 and 7.
- [12. **Nineteenth Century Poetry.** (a) The Romantic poets, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats; (b) the Victorian poets, Tennyson, Browning, Arnold, Rossetti, Morris, Swinburne.
Three hours, both semesters. (M. W. F., at 11:15)
Open to students who have completed Courses 1 and 7.
Omitted in 1912-13.]
- [14. **Old English.** (a) Introductory: grammar and selections. (b) Advanced: *Beowulf*.
Three hours, both semesters. (T. Th. S., at 10:15)
Open to students who have completed Courses 1 and 7.
Omitted in 1912-13.]
15. **Middle English.** (a) Chaucer. (b) *Piers Plowman*, popular ballads, metrical romances.
Three hours, both semesters. (T. Th. S., at 11:15)
Open to student who have completed Courses 1 and 7.

GROUP III. MATHEMATICS AND SCIENCE

WALTER ANDREW BRATTON, Acting Dean

DEPARTMENT OF MATHEMATICS AND
ASTRONOMY

Professors BRATTON and MOOTS

Students who select a major study in this department will take Courses 11, 4, 5, 6, and 12 hours from the more advanced courses offered.

The departments of Mathematics and Physics offer a combined major study consisting of six hours less in each department than is required for a full major in that department.

Not more than eight hours of work will be given in any one semester from Courses 8, 9, 10, 12, 13, 14, and 15.

1. **Solid Geometry.** No regular course is offered in this subject. But special provision in accordance with their needs will be made for those students whose courses require the subject.
2. **Plane and Spherical Trigonometry.** The course includes the trigonometric functions and formulae and the use of logarithms in the solution of triangles.
Three hours, first semester. (T. Th. S., at 11:15)
3. **Algebra.** A rapid study of the fundamental concepts and processes of algebra, together with a brief treatment of the elementary ideas of trigonometry, analytic geometry, and the calculus. The course is an introduction to the concepts and methods of higher mathematics.
Three hours, both semesters. (Two sections: T. Th. S., at 9:00 and 11:15)
Open to all students.
11. **Algebra.** A course substituted for Course 3 by those who intend to pursue more advanced courses in mathematics

and in engineering. A brief review of elementary algebra, with especial emphasis on the theory and handling of radicals and quadratic equations, followed by progressions, proportion and variation, series, logarithms, the binomial theorem, permutations and probability, determinants, the elementary theorems of the theory of equations and the solution of higher equations.

Three hours, first semester. (M. W. F., at 11:15); two hours, second semester. (W. F., at 11:15)

Open only to those who expect to pursue higher courses in mathematics and in engineering.

4. **Analytic Geometry.** This course is an introduction to the subject of Analytic Geometry, and embraces graphical algebra and the algebraic analysis of properties of the circle, the conic sections, and the common higher plane curves. This is followed by a brief study of solid analytic geometry.

Four hours, second semester. (M. T. Th. S., at 11:15)

Open to students who have completed Course 2, and the first semester of Course 11.

5. **Calculus.** The differentiation and integration of the common forms of algebraic and transcendental expressions, and applications.

Three hours, both semesters: (T. Th. S., at 9:00)

Open to students who have completed Course 4.

6. **Advanced Calculus.** A continuation of Course 5. It will include a further development of the principles of calculus with especial reference to their application in geometry and mechanics.

Two hours, both semesters. (T. Th., at 8:00)

Open to students who have completed Course 5.

15. **Differential Equations.**

Two hours, both semesters.

Open to students who have completed Course 5.

8. **Modern Algebra.** The theory of numbers and equations including determinants and an introduction to the general theory of substitutions and groups.
Two hours, both semesters.
Open to students who have completed Course 6.
9. **Descriptive Astronomy.** This course is designed to give a general knowledge of the facts of Astronomy, of the methods by which they are obtained, and the theories that account for them.
Young, *Manual of Astronomy*.
Two hours, both semesters. (W. F., at 8:00)
Open to students who have completed Elementary Algebra and Plane Geometry; but a knowledge of Plane and Spherical Trigonometry and Mechanics will help to a fuller appreciation of the subject.
10. **Analytical Mechanics.** The geometry of motion; dynamics, statics, and kinetics of a particle and a rigid body.
Two hours, both semesters. (W. F., at 8:00)
Open to students who have completed Course 5.
12. **History of Mathematics.**
Two hours, first semester.
Open to students who have completed Course 6.
13. **Pedagogy of Mathematics.**
Two hours, second semester.
Open to students who have completed Course 6.
14. **Theory of Functions.** An elementary course intended to alternate as a class elective with Course 8.
Two hours, both semesters.
Open to students who have completed Course 6.

DEPARTMENT OF PHYSICS

Professor BROWN

Students who select a major study in Physics will take all the courses offered except 12, in the following order:
Freshman year: Courses 1 and 2; Sophomore year:

Course 3; Junior year: Courses 4, 5, and 6; Senior year: Courses 7, 8, 9, 10, and 11.

The departments of Physics and Mathematics offer a combined major study which consists of six hours less in each department than are required for a full major in either department.

About one-half the work is done in the laboratory with a two-hour working period; note-books are required of all students. Numerical problems from original and selected sources are in constant use to illustrate the text and experiments.

12. **General Physics.** A course of lecture demonstrations in mechanics, heat, sound, light, and electricity.
One hour of credit, both semesters. (T., at 1:15)
Open to students who expect not to elect other courses in the department.
1. **Mechanics.** Lectures, recitations, experiments and numerous practical problems covering the field of elementary mechanics as well as possible without the use of the calculus.
Three hours, first semester. (M. W. F., 1:15 to 3:15)
Open to students who have completed or are taking Mathematics 2.
2. **Heat.** Lectures, recitations, and problems, largely experimental.
Three hours, second semester. (M. W. F., 1:15 to 3:15)
Open to students who have completed Course 1.
3. **Electricity.** A course of magnetic and electrical measurements, with some recitations, many problems, and lectures.
Three hours, both semesters. (M. T. Th., 2:15 to 4:15)
Open to students who have completed Courses 1 and 2.
4. **Optics.** Text-book, problems, experiments, and a few lectures.
Two hours, second semester. (W. F., at 10:15)
Open to students who have completed Courses 1 and 2.

5. **Advanced Mechanics.** A continuation of Course 1 with the aid of the calculus when useful. The course includes flexure of beams and kindred problems related to engineering practice. Lectures and experiments, with numerous problems.
Three hours, second semester. (M. W. F., at 10:15)
Open to students who have completed Course 1 and Mathematics 5.
6. **Precision of Measurements.** A course designed to give skill in collecting and arranging data to provide for the estimation of errors. The graphic method is used to interpret data gathered in actual work.
One hour, first semester. (M., at 10:15)
Open to students who have completed, or are taking Courses 1, 2, 3, 4, or 5 and Mathematics 5.
7. **Electrical Measurements.** Largely experimental, with mathematical development of the theory of measurements. Determination of the relation between electrostatic and electro-magnetic units; the measurement of electrical units in absolute values, etc.
One hour, first semester.
Open to students who have completed Course 3 and Mathematics 5.
8. **Alternating Currents.** Analytic treatment of periodic electromotive forces acting in circuits of various types. Lectures, with plotting of results and problems.
One hour, second semester.
Open to students who have completed or are taking Mathematics 5.
9. **Kinetic Theory of Gases—Thermodynamics.** Lectures and recitations, with calculations concerning molecular magnitudes and properties of matter.
One hour, first semester.
Open to students who have completed Courses 1 and 2 and Mathematics 6.
10. **Acoustics.** Lectures, recitations, problems, and experiments.
Two hours, first semester.
Open to all students.

11. **Investigations.** This course depends somewhat upon the election of the student. It includes lectures upon such topics as the theory of optics and acoustics, the properties of matter, the ether, etc.; experimental work in the determination of the gravitational constant; collection and discussion of meteorological data, etc.

One hour, both semesters.

Open to students who have taken Courses 1 and 2, and have obtained permission of the instructor.

DEPARTMENT OF CHEMISTRY

Professor CLARK and Mr. CAMPBELL

The work in this department is designed with a three fold object: First, it is intended for those who wish an elementary knowledge of the subject as a part of a general education; second, it seeks to provide for those who intend to study medicine or pharmacy the knowledge required for admission to the best professional schools; third, it aims to furnish a broad foundation for advanced study for those intending to take up chemistry as a profession.

Courses 1, 2, and 12 are recommended for students who elect chemistry as their prescribed science.

Students who contemplate studying medicine or pharmacy are recommended to take Courses 1, 2, 3, 7, and 4. Course 9 (a) may be substituted for Course 7. The following additional courses are recommended: Biology 1, 3, 4, 6, 7, and 8; Physics 1, 2, and 12; Mathematics 1, 2, 11, and 4.

Students who intend to take up Chemistry as a profession should take about thirty-two hours of chemistry and mineralogy, including Courses 1, 2, 3, 4, and 9, and the remaining hours from the more advanced courses offered. The following additional requirements should be fulfilled: Physics 1, 2, 3, and 4; Biology 1 and 12; Mathematics 1, 2, 11, 4, and 5.

Courses 4, 9, 6, 5, 10, 11, and 12 will be given only in alternate years.

1. **Descriptive Inorganic Chemistry.** A systematic study of the elements and their principal compounds, the fundamental laws and theories of chemistry. Two lectures and one laboratory period.
Smith, *Inorganic Chemistry*; Smith and Hale, *A Laboratory Outline of General Chemistry*.
Three hours of credit, both semesters. (T. Th., at 10:15; Th., at 1:15)
Open to all students.
2. **Qualitative Analysis.** Bases and acids. Chiefly laboratory work, occasional lectures and recitations upon the theories involved.
Bailey and Cady, *Qualitative Analysis*.
Three hours of credit, both semesters. (T. F., at 1:15)
3. **Quantitative Analysis.** A carefully selected series of quantitative determinations, designed to give the student as wide a range as possible of typical methods of quantitative analysis, both gravimetric and volumetric.
Talbot, *Quantitative Chemical Analysis*.
Two hours of credit, both semesters. (M. W., at 1:15)
7. **Elementary Physical Chemistry.** This course serves as an introduction to Course 9, where modern theories are discussed in greater detail.
Walker, *Introduction to Physical Chemistry*.
One hour, both semesters. (M., at 11:15)
Open to students who have completed Course 1.
8. **Advanced Quantitative Analysis.** The course includes methods of analysis of natural waters, gas, oils, coal, cement, alloys, ores, etc.
Two hours, both semesters.
4. **Organic Chemistry.** (a) Lectures. Systematic study of the compounds of carbon and their application to the arts. Two lectures per week. (b) Laboratory work. The preparation of typical organic compounds and the quantitative determination of carbon, hydrogen, nitrogen, and the halogens. (a) and (b) may be taken separately.

Holleman, *Text-book of Organic Chemistry*; Gatterman, *Practical Methods of Organic Chemistry*.

Three hours, both semesters. (M. F., at 8:00; T., at 2:15)

9. **Physical Chemistry.** (a) Two lectures a week, giving a systematic view of the subject, including the gaseous, liquid, and solid states of aggregation, the atomic and molecular theories, the kinetic theory and van der Waals's equation, the theories of solutions, electrolytic dissociation hypothesis, chemical statics and dynamics, thermo-chemistry, the phase-rule, thermodynamical proofs, radio-activity, and electro-chemistry with its direct application to the industries. A knowledge of the calculus is desirable. (b) A laboratory period weekly in physical chemical measurements. (a) and (b) may be taken separately.

Nernst, *Theoretical Chemistry*; LeBlanc, *Electro-Chemistry*; Findlay, *Practical Physical Chemistry*.

Three hours, both semesters. (W. F., at 11:15)

6. **Industrial Chemistry.** The aim of the course is to familiarize the student with the ground work of technical chemistry, leaving the special details to be learned by him in the factory or mine.

Two hours, both semesters. (T, Th., at 8:00)

12. **General Chemistry.** A course of lectures intended for non-scientific students who wish some elementary knowledge of the subject as a part of their general course.

Smith, *Chemistry for Colleges*.

One hour, both semesters. (S., at 10:00)

Open to all students.

10. **Crystallography and Mineralogy.** (a) A course of lectures one hour per week. (b) Laboratory work. Blowpipe analysis. (a) and (b) may be taken separately.

Dana, *Text-book of Mineralogy*.

Two hours of credit, both semesters.

5. **Assaying.** A laboratory course in assaying silver, gold, and platinum ores.

One hour, both semesters.

11. **Metallurgy.** A course which treats of the properties of the metals and the processes by which they are prepared from their ores.

One hour of credit, both semesters.

DEPARTMENT OF BIOLOGY

Professor BRODE

Courses 1 and 12 of this department are required of students who select Biology as their required laboratory science.

Students who select Biology as their major study will take work amounting to at least twenty-six hours.

1. **General Biology.** A laboratory course treating for the most part of animals, and serving as an introduction to the morphology, physiology, and ecology of living organisms.

Two hours, both semesters. (M. W., 1:15 to 3:15)

Open to all students.

12. **Biological Lectures.** A course of lectures on general topics in biology, including the characteristics, activities, relationships, and evolution of animals and plants, the history of biology, and an account of the natural history of the Pacific Northwest region. Lectures, illustrated with specimens, charts, and lantern slides. Little outside preparation is required, and credit for only one hour is allowed for two hours of lectures.

One hour, both semesters. (T. F., at 1:15)

Open to all students.

- [15. **General Botany.** A study of the morphology, physiology, and ecology of plants. Lectures, recitations, laboratory, and field work.

Three hours, both semesters. (M. W. F., 10:15 to 12:15)

Open to students who have completed Course 1.

Omitted in 1912-13. Alternate with Courses 3 and 4.]

3. **Histology.** A study of the cell as a unit of structure and function. Preparation and examination of slides of the principal mammalian tissues. Lectures and laboratory work.

Three hours, first semester. (M. W. F., 10:15 to 12:15)

Open to students who have completed Course 1.

Alternate with Course 15.

4. **Vertebrate Embryology.** A study of sex-cells, the early stages in the development of the egg, and the formation of the vertebrate body. Laboratory work consists of the study of the early stages of the frog, the chick, and the pig.

Three hours, second semester. (M. W. F., 10:15 to 12:15)

Open to students who have completed Course 1.

Alternate with Course 15.

- [7. **Physiology of the Nervous System and the Sense Organs.**

A study of human physiology with special reference to the central nervous system and the organs of special sense. The phenomenon of contraction is also included.

Text-book work, lectures, and demonstrations.

Three hours, first semester. (M. Th. F., at 2:15)

Open to students who have completed Course 1.

Omitted in 1912-13. Alternate with Course 5.]

- [6. **Physiology of Nutrition.** A study of human physiology, including the topics of digestion, circulation, respiration, and excretion. Text-book work, lectures, and demonstrations.

Three hours, second semester. (M. Th. F., at 2:15)

Open to students who have completed Course 1.

Omitted in 1912-13. Alternate with Course 9.]

5. **Biological Literature.** In this course a study is made of such topics as heredity, variation, and the various theories of the origin of species: Readings, discussions, and the preparation of theses.

Three hours, first semester. (W., at 8; Th. F., at 2:15)

Open to students who have completed Course 2.

Alternate with Course 7.

9. **General Physiology.** A study of the phenomena of life as exhibited by animals and plants under natural and artificial conditions, including such subjects as the nature of living substance, elementary vital phenomena, general conditions of life, and reactions to stimuli.
Three hours, second semester. (M. Th. F., at 2.15)
Open to students who have completed Course 1.
Alternate with Course 6.
8. **Bacteriology.** Elementary study of the micro-organisms in their relations to man, with methods employed in making cultures and examining bacteria. Lectures, textbook, and laboratory work.
Three hours, first semester. (T. Th. S., 10:15 to 12:15)
For the present the course is open to students only by special permission of the instructor.
11. **Industrial Biology.** A course in applied biology, dealing with those phases of the subject which refer more particularly to human industry.
Three hours, second semester. (T. Th. S., at 10:15)
For the present the course is open to students only by special permission of the instructor.
10. **Biological Research.** Advanced work on selected topics will be arranged with individual students who are prepared to undertake semi-independent work. The amount of credit for such work will be determined in each case.
14. **Marine Biology.** The College is one of the co-operating institutions at the Puget Sound Marine Station; credit is allowed for work done there, when properly approved by the head of the department.

GEOLOGY AND MINERALOGY

This department will be developed as rapidly as practicable to meet the needs of the students. Announcement of changes will be made later. At present only a single general course is offered, as follows:

1. **General Geology.** A brief survey of the science, including dynamical, structural, physiographical, and historical geology. The geological museum is well supplied with illustrative material for structural and historical study. A large number of lantern slides is available for illustration.

Two hours, both semesters.

Open to all students.

GROUP IV. ENGINEERING

WAYNE DARLINGTON, Dean

This group of studies will be developed steadily and as rapidly as practicable to meet the requirements of the courses outlined below. At present all the work up to the Junior year is provided for, and a large part of the work assigned to the Junior and Senior years.

The engineering courses are the product of ripened engineering experience. They are designed to prepare a student thoroughly for practical work in civil, mechanical, electrical, or mining engineering, omitting unnecessary manipulation and repetition, and providing a considerable element of culture as essential to the engineer. No separation between the students of engineering and the students of the other courses is contemplated or desired. All students will be equally under the influence of the historic traditions, the culture, and the religious atmosphere of the College. A high standard of character as well as of scholarship will be necessary for graduation.

The work is carefully articulated, rigorous in its demands upon time and energy, and for the first two years is required for all students. The courses begin to be differentiated in Junior year, but the special work in each course is required. An essential feature of the curriculum is the use of the summer vacations at the end of the Sophomore and Junior years, a portion of the Sopho-

more vacation being required for field work in Surveying, and all of the Junior summer vacation being required for shop work in one or more of the industrial plants of the Pacific Northwest. This summer work will be under the supervision of an instructor, and at its close careful detailed reports must be submitted for criticism and suggestion. A thesis upon some assigned topic cognate to the particular branch of engineering elected will be required of each candidate for graduation.

One distinct feature of the engineering course is the attention given to the broader cultural side of the student's education. It will be the aim of the College to fit the student not only to continue his engineering work in after life but to fit him for all the duties of citizenship in the community in which he may reside. A course of lectures will be provided which will be given by men eminent in professional life who are actively engaged in large work and advanced thought. Courses in Political Science and Economics are required of all the engineering students. Great attention will be given to English composition, expression, and public speaking. It has been the aim of the College to arrange these courses so that all engineering students may have the fundamental principles which belong to all courses in common. The differentiation of the various special branches will be possible in the summer shop work and in the subsequent choice of subjects for thesis writing.

OUTLINE OF ENGINEERING COURSES

The degree of Bachelor of Science in Engineering will be conferred upon students who complete the following requirements:

ADMISSION REQUIREMENTS: The same as for B.S. in other departments, except that it must include Mechanical Drawing and

Trigonometry. For engineering students, Algebra and Trigonometry will not be accepted on certificate, but an examination in these branches will be required in every case.

FRESHMAN YEAR

Hrs. of credit

English 1 and 5 (p. 77).....6	
French or German (pp. 72 and 75)6	
Mathematics8	
Algebra, Course 11 (p. 80)	
Analytic Geometry, Course 4 (p. 81)	
Biblical Literature 1 and 2 (p. 65)2	
Drawing Course 2 (p. 97)....2	
Chemistry 1 and 2 (p. 86)....6	
Physics 1 and 2 (p. 83).....6	
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36	

SOPHOMORE YEAR

Hrs. of credit

English 7 (p. 78)6	
French or German (pp. 72 and 75)4	
Mathematics6	
Calculus, Course 5 (p. 81).	
Descriptive Geometry, Course 3 (p. 97).....4	
Surveying Course 1 (p. 95)..2 (plus 3 weeks field work)	
Chemistry 2 and 3 (p. 86)...6	
Physics 3, 4, 10 (pp. 83 and 84)8	
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JUNIOR YEAR

Hrs. of credit

Philosophy 3 and 4 (pp. 56 and 57)4	
History 5 (p. 59)3	
Political Science 2 (p. 61)....3	
Geology 1 (p. 91)4	
Applied Differential Equa- tions and Theoretical Mechanics4	
Mechanisms Course 4 (p. 97) 4	
Graphic Statics Course 3 p. 96)2	
Industrial Chemistry2	
Mechanics and Hydraulics...4	
Options (see below)6	
—	
36	

SENIOR YEAR

Hrs. of credit

Economics 1 (p. 60)3	
Astronomy4	
Constitutional History3	
Nomography, Course 4 (p. 96).2	
General Lectures2	
Reports and Specifications...2	
Structural Engineering (p. 94)6	
Power Plants (p. 94)4	
Options (see below).....10	
Options (see below).....10	
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36	

Note: Two summer vacations with detailed reports: (1) surveying and field work; (2) shop work in factories, mines, etc.

The French or German of Freshman and Sophomore years shall follow German or French presented for entrance.

OPTIONS

CIVIL ENGINEERING

Junior Year—

Municipal Engineering:

Water Supply

Paving

Sewerage and Disposal

Highway Engineering

Sewer Construction

Senior Year—

Railroad Engineering

Irrigation Engineering

Surveying

ELECTRICAL ENGINEERING

Junior Year—

Thermodynamics

Steam Engines

Dynamos

Senior Year—

Electrical Transmission

Alternating Currents

MECHANICAL ENGINEERING

Junior Year—

Thermodynamics

Steam Engines

Dynamos

Senior Year—

Fuel and Oil Analysis

Boilers, etc.

Condensers

Gas Engines

MINING ENGINEERING

Junior Year—

Thermodynamics

Determinative Mineralogy

Metallurgy

Senior Year—

Geology and Mineralogy

Assaying

Mine Surveying

Mine Sampling

Structural Engineering. The work is in four main parts: (a) Materials of construction: wood, iron, steel, concrete, stone. (b) Sub-structures with ordinary and deep foundations. (c) Masonry and reinforced concrete structures, including solid arch. (d) Framed structures, trusses, cantilevers, draw, suspension, and framed arch structures.

Power Plants. This course covers (a) Steam plants, including installation,—piping, heaters, economisers, feed pumps, condensers, coal and ash handling machinery. (b) Water power plants, including impact wheels, controlling devices, and installation of turbines. (c) Electric power stations, including installation, converters, transformers, switch boards, and distributing systems. (d) Internal combustion engines and the use of compressed air and the air motors.

OPTIONS

This work is arranged to afford opportunity to specialize within and beyond the courses in Structural Engineering and Power Plants as follows:

Civil Engineering. (a) Railroad engineering: surveying, tunnelling, bridges, and use of concrete. (b) Irrigation engineering: dams, reservoirs, ditches, pipe lines, distributing devices, water meters, hydrography, and the duty of water. (c) Municipal engineering: sewer construction and sewage disposal, pavements and highways, water supply, and gas and electric lighting.

Mechanical and Electrical Engineering. Machine foundations, chimneys, machine types, including simple and compound reciprocating engines and steam turbines, the injector, gas engines, electrical transmission, dynamos, motors, storage batteries. Tests of indicators, dynamometers, gauges, meters, materials.

Mining and Metallurgical Engineering. Hoisting, drilling, tunnelling, pumping and ventilating machinery; use of compressed air, crushing machinery, tipples, tramming, and aerial machinery; stamp milling, ore dressing, smelting machinery, including furnace construction, fans, and blowers.

The instruction in the various subjects here described requires extensive use of the draughting room and will aim to develop some capacity for design. The proper use of engineering handbooks, the inspection of plants, and thesis work are included with this group of studies.

DEPARTMENT OF APPLIED MATHEMATICS

Professor Moors

1. **Surveying.** A fundamental course without emphasis on instrument errors. Each student is taught the operation of leveling, running a closed traverse, elementary tri-

angulation, Public Land Office procedure, use of the stadia method, plane table, etc. The course demands three weeks of field work at the beginning of the summer vacation, followed by a complete working up of the field notes in the draughting room.

Tracy, *Plane Surveying*.

One hour, both semesters. (T., at 10:15)

Required of Sophomores in Engineering.

2. Theoretical Mechanics and Applied Differential Equations.

A course based upon the calculus and arranged to develop the use of the differential equations in mechanics, hydraulics, and the theory of alternating currents. The student is taught not merely the formal side of solution methods, but also how to set up differential equations as definitions of natural laws. Lectures, text-books, and problems selected for their bearing upon collateral and subsequent engineering courses.

Smith and Longley, *Theoretical Mechanics*; Murray, *Differential Equations*.

Two hours, both semesters. (Th. S., at 10:15)

Required of Juniors in Engineering.

3. Graphic Statics. A course covering the general principles and special application of graphic methods to determine dimensions in framed and solid structures. One-half of each student's time is spent in the draughting room.

Sondericker, *Graphic Statics*.

One hour, both semesters. (W., at 10:15)

Required of Juniors in Engineering.

4. Nomography. A course in the construction of charts for the complete and permanent solution of formulae of engineering. It requires the use of mathematics up to the calculus, including the further development of the theory of elimination, determinate curve plotting and geometric transformation. The course is rich in application to hydraulics and other engineering studies and requires refined drawing methods.

Hewes and Seward, *Elementary Nomography*.

One hour, both semesters.

Required of Seniors in Engineering.

DEPARTMENT OF DRAWING

Professor DUNMORE

1. **Mechanical Drawing.** A preparatory course for students who have not met the requirements for admission. No college credit is given for the work. It embraces a study of instruments and of such geometric constructions and principles of projection as are necessary in machine drawing; practice in inking, shading, and lettering.

Anthony, *Mechanical Drawing*.

Hours to be arranged with the instructor.

2. **Mechanical Drawing.** This course presupposes an elementary course in Mechanical Drawing through orthographic projections to developments. The work begins with developments and includes exercises in isometric and perspective drawing. Three hours per week in the draughting room.

One hour of credit, both semesters.

Required of Freshmen in Engineering.

3. **Descriptive Geometry.** Geometrical magnitudes and the relations of the point, line and plane; surfaces, including double curved and warped, and tangent planes; solids and their intersections. One hour of recitation and lecture and three hours of work in the draughting room.

Church, *Descriptive Geometry and Book of Plates*.

Two hours of credit, both semesters. (T. Th. S., at 9:00)

Required of Sophomores in Engineering.

4. **Mechanisms.** (a) Study of the Zeuner and Bilgram diagrams and the application of them to simple slide valves; (b) kinematics; theoretical analysis of pure mechanism and practical application of these principles to simple and complex machines; velocity diagrams, analysis of links, cams, gears, belting, and other contact mechanisms; automatic machinery. (c) machine design; study of the strength and nature of the materials used in machine construction, including the necessary theory for proportioning screws, nuts, keys, cotters, shafting, couplings, eccentrics, connecting rods, pistons, cross-

heads, guides, stuffing boxes, valves, rivet joints, etc. Students will visit shops in order to see the application of theory to practice. Trade catalogues and commercial blue prints will be consulted freely. One hour of recitation and three hours of work in the draughting room.

Spangler, *Valve Gears*; Barr, *Kinematics*; Low and Beavis, *Machine Design*.

Two hours of credit, both semesters. (T. Th. S., at 11:00)

Required of Juniors in Engineering.

PHYSICAL TRAINING

Mr. HAHN

The Faculty of the College, recognizing that physical culture is both hygienic and educative, desire to encourage every reasonable effort in the direction of physical development consistent with strong manhood and womanhood. At the beginning of each year all students are given a thorough physical examination in order that proper exercise may be prescribed in case of any physical defect.

All students are required to take Physical Training under the supervision of the Director throughout the Freshman and Sophomore years. For both men and women these exercises consist of light gymnastics in regular classes, unless the student is assigned to athletic exercise instead. All students, whether assigned to classes or not, are expected to make use of the gymnasium and athletic fields, and to consult the director as to proper forms of exercise for their individual needs. A student may be excused from assigned work in his department upon presentation of an approved excuse to the chairman of the committee of Physical Training. A credit of one hour each semester, to a maximum of six hours, is allowed for satisfactory work in Physical Training.

All athletic and team contests are under close supervi-

sion of the Director. No student is allowed to take part in games or contests whose physical examination shows that he is unfit. No student is permitted to compete in athletic contests if his grade of scholarship is unsatisfactory to the Faculty.

1. **Gymnastics.** *For Men.* The work consists of vigorous exercises with and without hand apparatus. Progressive work on the heavy apparatus is also given.

Throughout the year.

For Women. The work is similar to that given for men, but more attention is given to those forms of exercise best adapted to develop grace and symmetry. Swedish apparatus work in its milder form is given.

Throughout the year.

2. **Athletics.** *For Men.* Teams are organized and expert instruction provided in football, basketball, track athletics, baseball, and tennis. Students may be assigned to work on the various teams, and when so assigned are excused from gymnastic drill.

For Women. The milder forms of outdoor exercises, such as tennis and field hockey, are provided.

4. **Corrective Gymnastics.** Such abnormal postural defects or functional disorders as are revealed by the student's physical examination and which may be corrected by special work in the gymnasium are given especial attention. Corrective exercises are prescribed, and such manipulation as will induce normal functions.

GENERAL INFORMATION

CHARGES

The college year consists of two semesters, for each of which the same tuition is charged.

Tuition, per semester.....	\$50.00
Laboratory fee, Physics, Chemistry, Biology.....	5.00
Diploma fee, Bachelor's degree.....	5.00
Examination and diploma fee, Master's degree.....	10.00
Board, per week.....	4.00
Room rent, per semester:	
Two students in double room, each.....	25.00
One student in a single room.....	30.00

All tuitions and fees are due and payable to the Bursar at the opening of each semester. No student may complete his registration and attend classes until his bills for semester's tuition and room-rent and for one month's board have been paid, or an arrangement satisfactory to the Bursar has been made for their payment.

Children of ministers of the Gospel actually engaged in the work of the ministry, and students preparing for the ministry are charged half tuition. Students preparing for the ministry are required to sign an agreement that they will return all aid granted them in case they leave the College before the end of the course, or fail to enter the ministry.

When three members of the same family are students at the same time in the College, the tuition of one may be remitted, on application to the Committee on Scholarships.

No deduction from tuition will be made for absence except for long continued illness, in which case a fair rebate will be allowed, to be applied on the tuition of the following semester.

A laboratory fee of \$5.00 is charged for the purchase of materials and supplies in Physics, Chemistry, and Biology. All breakages in laboratories must be paid for in addition.

The Bursar will act as trustee for parents or guardians who wish to make deposits for the use of students.

THE DORMITORIES

The College has four dormitories, Billings Hall for men, Reynolds Hall, Prentiss Hall, and Green Cottage for women. They have accommodations for about eighty, fifty, twenty-five, and fourteen students respectively. Each hall is in charge of an officer who inspects it regularly, acts as adviser to students, and promotes good order. All rooms are furnished with study tables, chairs, book-case, bedsteads, bureaus with mirrors, commodes, and crockery. Bed linen, (sheets $1\frac{1}{2}$ by $2\frac{1}{2}$ yards), blankets, towels, pillows, draperies, and rugs or carpets must be furnished by the occupants. The rates charged include heat and light.

PRICES OF ROOMS

Uniform prices are charged for all rooms regardless of size or location, the rooms being divided into two classes of single and double rooms. One person occupying a double room alone will pay the same as if two persons were occupying it. Single rooms may be occupied by only one person.

Single rooms, per semester.....\$30.00

Double rooms, per semester, each occupant.....\$25.00

The following are single rooms:

Billings, Nos. 1, 2, 3, 4, 5, 6a, 7a, 8, 10, 11, 12, 13, 14, 15a, 16a,
17, 23, 24a, 25, 26, 27, 28, 29, 30a, 31a, 32, 38, 39a.

Reynolds, Nos. 3, 4, 13, 14, 19, 20, 29, 30.

The following are double rooms:

Billings, Nos. 6, 7, 9, 15, 16, 18, 19, 20, 21, 22, 24, 30, 31, 33, 34, 35, 36, 37, 39, 40, A, B.

Reynolds, Nos. 1, 2, 5, 6, 7, 8, 9, 10, 11, 12, 15, 16, 17, 18, 21, 22, 23, 24, 25, 26, 27, 28, 31, 32.

Prentiss, Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 15.

Green Cottage, Nos. 1, 2, 3, 4, 5.

Rooms in the dormitories will not be assigned until a deposit of five dollars has been paid. This will be kept to cover possible breakages and fines until the close of the year, when the balance will be refunded.

Application for rooms, with draft or money order, should be sent to the Bursar of Whitman College, Walla Walla, Washington.

In the dining-rooms of Billings and Reynolds Halls about one hundred and fifty students obtain table-board of excellent quality at \$4.00 per week. Arrangements for board must be made with the Bursar and bills paid in advance. The dining-rooms are open two days before the first semester begins and for three days after commencement. They are closed during the Christmas recess.

ESTIMATED EXPENSES

The subjoined table gives close estimates of the ordinary annual expenses in college, omitting clothing, vacation charges, and sundries. These expenses may be reduced if two students room together.

	Lowest.	General Average.	Very Liberal.
Tuition for year	\$100.00	\$100.00	\$100.00
Room rent	36.00	50.00	75.00
Board	108.00	144.00	144.00
Washing	10.00	20.00	30.00
Text-books and stationery	15.00	20.00	40.00
Total.....	\$269.00	\$334.00	\$389.00

STUDENT SELF SUPPORT

Students who wish to support themselves will find opportunity for so doing in the College or in the town. Part of the work about the College buildings and grounds is assigned, under the direction of the superintendent, to such students as a means of partly paying for their tuition or board. Assistance is also rendered in obtaining employment in town. No capable young man or woman in good health, who is determined to secure a college education, need fail in the attempt. Opportunities for work occur chiefly in the direction of domestic and office assistance, personal services of various kinds, canvassing, agencies, stenography, and manual labor. The Christian associations maintain a free labor bureau in conjunction with the Faculty, registering all students who apply for employment and supplying employers with student labor as demanded.

Students who work for the College, either on the grounds or in the dormitories, must be present three days before the opening of the year and must remain if needed until after Commencement.

SCHOLARSHIPS

The following funds have been established, the income from which will be available at the discretion of the Trustees and Faculty for the promotion of scholarly work and the assistance of students who are in need. A high standard of faithfulness and conduct is required of those who would be benefited by such aid.

All applicants for scholarships are required to attain an average of 80 per cent. during each semester in order to obtain the scholarship for the following semester. No scholarship aid will be given to students who use tobacco

or have other expensive habits. Holders of scholarships may be required by the Faculty to do a limited amount of clerical work.

THE NORTHRUP SCHOLARSHIP of \$1000, given by friends of Mrs. Northrup of Hartford, Conn., is for the aid of needy and deserving students.

THE ORANGE SAGE SCHOLARSHIP of \$1000 was given by Mr. Sage and his sister, of Ware, Mass.

THE EDMUND TAYLOR SCHOLARSHIP of \$1000 was given in memory of Mr. Edmund Taylor, of St. Johnsbury, Vt.

THE D. S. BAKER SCHOLARSHIP. The proceeds of this scholarship of \$1000, to the amount of a year's tuition, are to be awarded each year, according to the directions of the donor, to that graduate of Pearsons Academy who enters the College with the highest honors and is in need of such assistance. The award is announced at Commencement.

THE FAY SCHOLARSHIP of \$1000 was established by the will of Miss Eliza A. Fay, of Winchester, Conn., which directed the trustees "to apply the interest and income therefrom to the payment of the tuition of worthy students."

THE LOUISA PHELPS ANDERSON GREEK SCHOLARSHIP. The proceeds of this scholarship of \$1000, to the amount of a year's full tuition, are awarded, according to the direction of the donor, to one or two members of the incoming Sophomore class of high scholarship, who show special proficiency in Greek and need such assistance. The holders of this scholarship are required to do a certain amount of extra work under the supervision of the Professor of Greek. This scholarship is open to Juniors, but the holder will regularly be one who is taking Greek as a major study. The award is announced at Commencement.

THE WOODWARD FELLOWSHIP IN MATHEMATICS has been established by George B. Woodward and Eva M. Woodward. The proceeds, amounting to \$50 a year, are to be used for the encouragement of scholarship in Mathematics. The award is to be made each year to a member of the incoming Senior class nominated by the head of the department of Mathematics. A certain amount of assistance in the work of the department is required. The award is announced at Commencement.

THE ALEXANDER JAY ANDERSON SCHOLARSHIP of \$1000 has been established by the Class of 1888 as a memorial of Dr. Anderson, the first President of the College.

THE EDMUND KIMBALL ALDEN SCHOLARSHIP of \$1000 was given out of the estate of Miss Sarah B. Alden, of Randolph, Mass., by the executor, Rev. Ebenezer Alden, D.D., in memory of a brother, Rev. Edmund Kimball Alden, D.D. for many years corresponding secretary for the American Board of Commissioners for Foreign Missions.

THE JOHN LINDSAY WITHROW SCHOLARSHIP of \$500 consists of the interest on funds contributed by the Rev. J. L. Withrow, D.D., LL.D., "for the education of a young man preparing for the Christian ministry."

THE FIRST CONGREGATIONAL CHURCH SCHOLARSHIP of \$500 is maintained by the First Congregational Church of Walla Walla, its proceeds to be given each year by a vote of the trustees and pastor of the church to the student or students deemed most deserving of such aid.

THE GEORGE C. BIGELOW SCHOLARSHIP of \$1000 was given by Mrs. George C. Bigelow, of Worcester, Mass., in memory of her husband.

THE AGNES M. BIGELOW SCHOLARSHIP of \$1000 was given by Dr. and Mrs. E. H. Bigelow, of Framingham, Mass., in memory of an only daughter, who was born October 16, 1891, and died June 17, 1892.

THE RUSSELL A. BIGELOW SCHOLARSHIP of \$1000 was given by Mrs. W. H. Bigelow, of Tarpon Springs, Florida, in memory of her son, Russell A. Bigelow, a brilliant graduate of Yale University, Class of '81, who died in New York City soon after beginning a promising career as a lawyer.

THE JOSEPH HARTSHORN PERRY SCHOLARSHIP of \$1000 was given by Mr. and Mrs. Josiah Perry, of Perryville, Mass., in memory of Mr. Perry's father.

THE B. F. PARSONS SCHOLARSHIP of \$1000 was given in memory of Rev. B. F. Parsons, who died in Derry, N. H., in 1896, aged 76 years.

THE SUSAN E. CLARK SCHOLARSHIP of \$1000 was given by Miss Susan E. Clark, of West Brattleboro, Vt.

THE EMMA SMITH SCHOLARSHIP of \$1000 was given by Miss Emma A. Smith, of Stonington, Conn.

THE FREDERICK R. COWLEY SCHOLARSHIP. The sum of \$500 was given by Mrs. H. T. Cowley, of Spokane, Wash., to establish a general scholarship in memory of her son, Frederick R. Cowley.

THE MYRA H. DAVIS LOAN FUND of \$1000 was established by the will of the late Myra H. Davis, former Matron of Prentiss Hall, to be loaned in cases of need to young women who are members of the Senior or Junior class of the College. No interest is to be charged upon such loans.

THE WHEELER SCHOLARSHIP of \$1000 was given by the Misses Sarah E. and Mary F. Wheeler, of Wellesley, Mass.

THE MARY J. STEWART SCHOLARSHIP. The executors of the estate of Mrs. Mary J. Stewart, of Spokane, have given to the College the use of \$1000, the income to be devoted to aiding the children of Congregational ministers.

THE MYRA FAIRBANKS EELLS FUND, amounting to \$2695, has been contributed, mainly by the women of Washington, to aid needy young women in their efforts for education. It is named in honor of the self-sacrificing wife of Rev. Cushing Eells, the founder of the College.

THE JACOB BETZ, JUNIOR, SCHOLARSHIP of \$1000 was given by Mr. and Mrs. Jacob Betz, of Tacoma, in memory of their son, Jacob Betz, Jr., a student of Pearsons Academy, who died November 30, 1903. Its income is to be used for the benefit of deserving and needy students of the Academy.

THE HIGH SCHOOL HONOR SCHOLARSHIPS. The Board of Trustees has also established a number of scholarships, each consisting of one year's full tuition in the College. One of these will be awarded to a graduate of high standing in high schools and academies of Idaho, Oregon, and Washington, whose graduating class numbers ten or more. The award will be made upon recommendation of the principal of the school of which the applicant is a graduate.

THE MATHEWS LOAN FUND. Mr. and Mrs. Stephen H. Mathews of Spokane have given fifty thousand dollars to the College to be known as the Stephen H. and Mary A. Mathews Scholarship Loan Fund. As stated in the deed of gift it is "for the purpose of educating poor and worthy young men and women who are unable to educate themselves without aid, the interest and income alone to be used for this purpose. . . . Any person receiving aid from said trust fund shall be required to repay the amount so loaned

back to the principal fund, with a nominal rate of interest, to be determined by said College through its executive officers, said payments to become due after the recipients of such aid shall have completed their education, or otherwise, as may be determined by said officers. . . . In case suitable persons for all scholarships created with said fund are not found in any year, the amount of such unused fund may be loaned, on interest, to any person wishing to take a post-graduate course in said College; said loans, when repaid, to be used as originally intended. . . . All income earned by said trust fund unused at the expiration of each year shall become a part of the principal fund, and be invested in like manner, and the income therefrom shall be used for the purpose above set forth." The income from the fund is not yet available.

PRIZES

ENGLISH ESSAY PRIZES—A friend of the College has offered fifty dollars to be given in two prizes of thirty dollars and twenty dollars each, for the best English essays submitted in competition upon the following terms:

The award is to be made by a committee of three judges, not connected with the College, upon the basis of scholarly work and literary style.

The subjects are to be selected by the heads of the several departments, and announced on or before October 15th.

The competition is to be open to members of the Sophomore, Junior, and Senior classes. There must be at least five competitors.

The essays are not to contain more than 5000 words. They are to be handed in on May 1, signed by a fictitious name, with an accompanying sealed envelope containing the real name of the writer.

THE CLASSICAL CLUB VASE—A fine silver vase, reproduced from one of classic design discovered in the ruins of Pompeii, has been given to the Classical Club for the annual literary competition. That undergraduate who is adjudged by disinterested scholars to have presented the best paper before the club during any year will be awarded the honor of having his name and the date engraved upon

this vase, which will remain in the possession of the Classical Club.

THE HALL CUPS—Through the generosity of Dr. W. L. Hall, of Spokane, two handsome silver cups are offered for competition among the students. The young woman and the young man who show the greatest advancement in the development of a healthy athletic frame by conscientious attention to the taking of physical exercise as provided in the gymnasium, are to receive as a reward the honor of having his or her name inscribed upon one of these cups, which are to remain permanently as the property of the gymnasium and to be on exhibition in the trophy room.

THE CLASS OF 1906 PRIZE FOR DEBATING, consisting of books to the value of thirteen dollars, is to be awarded annually to the leader of the first intercollegiate debating team. This team is chosen in the annual contest between the Athenaeum and Phrenokosmian Societies.

THE NORMA J. RYAN ENGLISH PRIZE—In memory of Norma J. Ryan, a member of the class of 1911, who died on April 2d, 1908, her father and two older brothers have established a prize of twenty-five dollars, to be awarded each year to that member of the Freshman class who shall write the best essay submitted in competition upon the following conditions:

Only Freshmen may compete, and at least ten members of the Freshman class must enter the contest.

The essay may not exceed in length 1500 words.

The essay must not be presented later than May first.

The basis of award shall be chiefly the originality and simplicity of the essays submitted.

The signature must be a fictitious name, but the real name must accompany the work in a sealed envelope.

The award shall be made by three competent and impartial judges not members of the College Faculty, and announced at Commencement.

THE BURKE PRIZES—Judge Thomas Burke, of Seattle, offers annual prizes of thirty dollars each to the departments of Romance Languages and German. These prizes are awarded to those members of the Senior class who, at graduation, have attained the highest average in either of the departments, provided, that no student may be a candidate for the prizes who has not credit for at least three years of work in the department.

THE DECLAMATION CUPS—A friend of the College has presented two handsome silver cups upon which are to be engraved the names of the winners in the annual declamation contest of the College.

THE BANKERS' ASSOCIATION PRIZE—The Washington Bankers' Association offers two annual prizes of fifteen and ten dollars respectively to those members of the Senior class who present the best essay on a subject relative to finance and banking. The subject for the year 1911-12 is "The Relation of a Bank to the Farmer." The terms of the contest and conditions of award are determined by the Executive Committee of the Association.

GRADUATE APPOINTMENTS

In order to aid graduates of the College to find suitable positions, a Faculty Committee on Appointments conducts correspondence, furnishes a list of eligible candidates with discriminating recommendations to superintendents, and endeavors to place each graduate in the best position for which he or she is fitted.

The Superintendent of Public Instruction for the State of Washington will, upon the presentation of a diploma

from the College by a graduate, issue a state teachers' certificate, provided the applicant also passes an examination in History of Education, Pedagogy, and School Law. For the benefit of prospective teachers, work in these subjects is offered (see page 58).

COLLEGE ORGANIZATIONS

THE YOUNG MEN'S CHRISTIAN ASSOCIATION is a vigorous organization, which maintains a weekly meeting at 9:45 on Sunday mornings, a mid-week prayer meeting, classes for Bible study and mission study, and a lecture course during the winter.

THE YOUNG WOMEN'S CHRISTIAN ASSOCIATION, in a similar manner, provides for the religious nurture of the young women, holding its weekly meeting on Wednesday afternoons at four o'clock and maintaining well-attended classes for Bible study and mission study.

THE CLASSICAL CLUB, founded in February, 1902 as the Greek Club, holds literary sessions open to the public on the third Tuesday of each month from October to May inclusive. The object of the Club is the advancement of knowledge bearing upon Greek and Roman literature, language, life, history, geography, art, and archaeology.

THE SCIENCE CLUB is an association under the direction of the heads of the science departments which has for its object the furtherance of scientific knowledge and the review of current scientific literature. Meetings are held fortnightly, a meeting for the review of literature alternating with one at which a set lecture is given.

DER DEUTSCHE VEREIN meets fortnightly for the promotion of the use of the German language and to study the life and customs of the German people. Occasional lectures and literary programs are given. The club is open

to students of German and all others who are interested.

THE POLITICS CLUB is an organization under the general direction of the department of Political Science. Its object is to interest its members and others in current economic and political questions.

THE ASSOCIATED STUDENTS OF WHITMAN COLLEGE is an organization which has charge of the general activities of the student body. Athletics of all kinds, the glee clubs, debate, literary societies, and student publications are under its control. Any student or instructor of the institution is eligible to membership.

THE ATHENAEUM AND PHRENOKOSMIAN LITERARY SOCIETIES, meeting weekly, furnish opportunity to the young men for profitable practice in the important work of debate and public speaking.

THE LIBETHREAN, PHILOLITHIAN, AND AGORA LITERARY SOCIETIES have been organized by the young women of the college for the development of literary culture and social life.

THE WHITMAN CHORAL SOCIETY, while not intended exclusively for college students, offers to them without charge the advantage of singing in a large and well-trained chorus and of hearing the great oratorios and choral compositions.

THE CHAPEL CHOIR is composed of twenty-four carefully selected mixed voices, trained by the Musical Director of the Conservatory of Music. It leads the singing at the daily chapel service and once each week offers a special musical programme. It also furnishes music for certain special occasions, as Convocation and Commencement.

GLEE CLUBS are maintained by both young men and young women.

COLLEGE PUBLICATIONS

THE WHITMAN COLLEGE QUARTERLY is published by the Faculty four times each year in the interest of the College. It contains announcements of importance and much valuable historical matter.

THE PIONEER is the organ of the student body. It is published weekly, with monthly literary numbers.

THE WAILLATPU, the College annual, is published by the members of the Junior class.

THE STUDENTS' HAND-BOOK, published and distributed annually by the Christian Associations, contains information of value particularly to new students.

REGISTER

DEGREES CONFERRED IN 1911

BACHELOR OF ARTS

- GEORGE ANDERSON BOHANNON, Political Science
 EVELYN MANNING HANDLEY, English
 RUTH KATHARINE THOMAS, History
 RALPH EMERSON WOODRUFF, General Course
 HAROLD EMMONS CRAWFORD, Mathematics, *cum laude*
 BESSIE AMANDA GWINN, English, *cum laude*
 NELL ALICE HOSTETLER, History, *cum laude*
 OTTO BURRITT JOHNSON, Political Science, *cum laude*
 CHARLES RAYMOND LEWIS, English and Political Science, *cum laude*
 MARGARET HELEN PADDOCK, English, *cum laude*
 ELIZABETH RUTH SNYDER, English, *cum laude*
 ARZA MCCLELLAN WILLIS, Mathematics-Physics, *cum laude*
 MAUDE VANETTA CLEMENTS, Latin and English, *magna cum laude*
 CARL CREEKMORE RYAN, Modern Languages, *magna cum laude*
 RHEA MAUD WOODRUFF, Latin, *magna cum laude*

BACHELOR OF SCIENCE

- JENNIE PAULINE BUSCH, General Course
 FRED WHITMAN CLEMENS, Mathematics
 TRACEY STANLEY COX, Political Science
 CLARENCE EDGAR MORROW, Mathematics (as of the Class of 1910)
 MARTHA JANE MURPHY, Mathematics
 HELENA BARBARA RAE, Mathematics
 CALVIN CRUMBAKER, Political Science, *cum laude*
 TRACEY WATSON LYMAN, Biology, *cum laude*
 MYRTLE CORDELIA MELCHER, Biology, *cum laude*

MASTER OF ARTS

- MARY PEARL KELSO, A.B., 1910, English
 Thesis: "The Common People in Langland and Chaucer"

DOCTOR OF LAWS (Honorary)

- *MARK ALLISON MATTHEWS, D.D.

*Degree conferred at Convocation, 1911.

AWARD OF HONORS, 1911

The D. S. Baker Scholarship—

GENEVIEVE AGATHA BUFF, Class of 1914

The Louisa Phelps Anderson, Greek Scholarship—

BERTHA ROSETTA DOOLEY, Class of 1912

The English Essay Prizes—No award

The Classical Club Vase—No award

The Norma J. Ryan English Prize—

DOROTHY ELMER, Class of 1914

The Hall Cups—No award

The Woodward Scholarship in Mathematics—

HAROLD EMMONS CRAWFORD, Class of 1911, and WILLIAM EDMUND MILNE, Class of 1912

The Burke Prize in French—

CARL CREEKMORE RYAN, Class of 1911

The Burke Prize in German—

CARL CREEKMORE RYAN, Class of 1911

The Declamation Cups—No award

UNDERGRADUATE HONORS

Junior, Class of 1912—

ALBERT GREENWELL, Biology

NETA OSBORN LOHNES, English

ALICE EMILY McMILLAN, Latin, French

WILLIAM EDMUND MILNE, Greek, Mathematics

Sophomore, Class of 1913—

HILDA AMELIA ANDERSON, English

MARGARET BELLE MARTIN, German

RALPH RESER, Greek

MARY RINGHOFFER, Modern Languages

RUTH RINGHOFFER, Mathematics

Freshman, Class of 1914—

HENRIETTA LUCILE BAKER

NEWTON ELLIOT BARRETT

GEORGE PRESTON CHALFANT

EARL FRANKLIN HUGHES

PHILIP GRAHAM KNIGHT

REGISTER OF STUDENTS

SENIORS

Thomas Van Valkenburgh Atwater	S. Biology	<i>Spokane</i>
Mary Dowd Bassett	A. History	<i>Spokane</i>
Donald George Campbell	S. Chemistry	<i>Atlanta, Ida.</i>
Allen Carlton	S. Mathematics	<i>Kendrick, Ida.</i>
Florence Beulah Chase	A. English	<i>Lewiston, Ida.</i>
Claudia Louise Cox	A. History	<i>Walla Walla</i>
Bertha Rosetta Dooley	A. Latin	<i>Twin Falls, Ida.</i>
Lela May Garver	A. German	<i>Clarkston</i>
Grover Rawle Greenslade	S. Physics	<i>Trout Lake</i>
Albert Wright Greenwell	S. Biology	<i>Idaho Falls, Ida.</i>
Rolla Bennett Hill	S. Biology	<i>Colfax</i>
Edith Smaw Hinkley	S. Math.-Physics	<i>Modesto, Cal.</i>
Lou Addie Hostetler	A. History	<i>The Dalles, Ore.</i>
Alva Ross Kitt	A. History	<i>Spokane</i>
Rose Klein	A. Mod. Lang.	<i>Lewiston, Ida.</i>
Neta Osborn Lohnes	A. English	<i>Spokane</i>
Willena Gladys Lyman	A. French	<i>Walla Walla</i>
Alice Emily McMillan	A. Latin, French	<i>Orin</i>
Chester Collins Maxey	A. English, Pol. Sci.	<i>Ellensburg</i>
Helen Monta Melheim	A. Latin	<i>Spokane</i>
Harvey Virgil Miller	A. History	<i>College Place</i>
William Edmund Milne	A. Math., Greek	<i>Pendleton, Ore.</i>
Bruce Bayard Mushette	A. Latin	<i>Walla Walla</i>
Leo Lee Oldright	S. Math.-Physics	<i>Walla Walla</i>
Rovilla Gertrude Ross	S. Polit. Sci.	<i>Prairie City, Ore.</i>
Mary Frances Smith	A. English	<i>Kennewick</i>
John Franklin Stone	A. English	<i>Thornton</i>

JUNIORS

Elisa Berthe Aellen	A. French, German	<i>Spokane</i>
Hilda Amelia Anderson	A. English	<i>Spokane</i>
Alette Josephine Bangsund	A. Latin	<i>Astoria, Ore.</i>
Virgil Bennington	S. Biology	<i>Ritzville</i>
Arthur Waldemar Blomquist	S. Polit. Sci.	<i>Shelley, Ida.</i>
Clarence Cleman	A. Mathematics	<i>Ellensburg</i>
George Berton Cole	A. Philosophy	<i>Midvale, Ida.</i>

Sadie Collins	A. Latin	Spokane
Mary Katharine Diven	A. German	Olympia
Mary Eunice Dresser	A. History	Lewiston, Ida.
Frank Edmiston Engdahl	S. Polit. Sci.	Pendleton, Ore.
Edna Martha Fleming	A. English	Twin Falls, Ida.
Paul Willard Garrett	S. Polit. Sci.	Wanatchee
Guy Gaius George	S. Polit. Sci.	Wenatchee
Irene Hayward	A. English	Walla Walla
Grace Alma Hill	S. Biology	Seattle
Alfred Cary Houghton	A. Latin	Attalia
William Floyd Howard	S. Polit. Sci.	Fairbanks
Grace Emma Huber	S. Mathematics	Walla Walla
Hilda Marguerite Lancefield	A. English	Portland, Ore.
George Thomas McCoy	A. Latin	Walla Walla
Veva Verna McGrew	S. Mathematics	Walla Walla
William James McKay	A. Latin	Almira
Christine Louise McRae	A. Mod. Lang., Eng.	Walla Walla
Margaret Belle Martin	A. German	Spokane
Sarah Ellen Miller	A. Latin	Dayton
Royal Francis Niles	A. History	Walla Walla
Lucile Pauline Rathvon	A. English	Marysville
Louise Julia Rehorn	S. Biology	Walla Walla
Ralph Reser	A. Greek	Walla Walla
Mary Ringhoffer	A. Mod. Lang.	Walla Walla
Ruth Ringhoffer	A. Mathematics	Walla Walla
Myrtle Vera Robinson	A. English	Spokane
Gilman Oliver Rolstad	S. Chemistry	North Yakima
Iona Collier Ryan	A. History	Walla Walla
Mabel Ryman	A. English	Walla Walla
Bethine Stevens	A. English	Walla Walla
Ida Lula Stubblefield	A. History	Walla Walla
Bessie Thurston	Gen. Course	Payette, Ida.
Ernest LeRoy Wiley	A. History	North Yakima
Elsie Wilson	A. Mathematics	Spokane
Laura Annie Wilson	A. English	Payette, Ida.
Ruth May Woodruff	A. Latin	White Salmon
Cecil Clarke Yates	A. Math.-Physics	Pendleton, Ore.
Elmer Howard Yates	A. Math.-Physics	Pendleton, Ore.

SOPHOMORES

Samuel Wayne Amey	S. Mathematics	<i>Joseph, Ore.</i>
Roland Herbert Bainton	A. Latin	<i>Colfax</i>
Henrietta Lucile Baker	S. Math.-Physics	<i>Walla Walla</i>
Theron Simpson Barnes	S. Math.-Physics	<i>Milton, Ore.</i>
Newton Elliott Barrett	A. Philosophy	<i>Tacoma</i>
Edison Botts	S. Chemistry	<i>Caldwell, Ida.</i>
Howard Lester Botts	S. Biology	<i>Caldwell, Ida.</i>
Harry Coplen Bowers	S. Biology	<i>Walla Walla</i>
Florence Edna Browning	A. English	<i>Wenatchee</i>
George Preston Chalfant	A. Mathematics	<i>Boise, Ida.</i>
Roscoe Loyal Clark	Chemistry	<i>Dayton</i>
John Harold Crampton	S. Polit. Sci.	<i>Walla Walla</i>
Clifford Douglas	S. Chemistry	<i>Walla Walla</i>
Hazel Ferguson	A. English	<i>Walla Walla</i>
Hilda Nelson Foshaug	A. Latin	<i>Wishkah</i>
Roberta Lesley Gose	A. Latin	<i>Dixie</i>
Myrtle Alice Green	A. English	<i>Pomeroy</i>
Helen Elizabeth Gwinn	M. Music	<i>Garfield</i>
Breta Almeda Harter	A. Mathematics	<i>Hatton</i>
Frank Loyd Hazeleton	S. Polit. Sci.	<i>Bellingham</i>
Margaretta Herbert	A. English	<i>Tolt</i>
Harold Reuben Holm	S. Mathematics	<i>Walla Walla</i>
Earl Franklin Hughes	S. Engineering	<i>Portland, Ore.</i>
Jean Ethel Jamieson	A. English	<i>Walla Walla</i>
Helen Given Keith	A. English	<i>Wenatchee</i>
Neil Roy Knight	S. Polit. Sci.	<i>Vancouver</i>
Vernon Arthur Kuney	S. Physics	<i>Bellingham</i>
Walter Cooke Lee	A. Mathematics	<i>Seattle</i>
Alice Malinda Lilliequist	A. English	<i>Spokane</i>
Gladys Lillian Lowden	A. Latin	<i>Portland, Ore.</i>
Rowena Margaret Ludwigs	M. Music	<i>Walla Walla</i>
Alfred McConaughy	S. Biology	<i>Kalama</i>
Othel Henrietta Martin	A. History	<i>Davenport</i>
Gustav George Meese, Jr.	S. Polit. Sci.	<i>Spokane</i>
William Alfred Neill	S. Chemistry	<i>Vancouver</i>
Elizabeth Neterer	A. Latin	<i>Bellingham</i>
Ilse Wiedfeldt Oppermann	A. German, English	<i>Spokane</i>
Katherine Zorada Pentecost	A. English	<i>Walla Walla</i>

John Logan Peringer	A. Philosophy	<i>Adams, Ore.</i>
Lillian May Pierce	S. Biology	<i>Spokane</i>
Bessie Grace Porter	A. Math.-Physics	<i>Pendleton, Ore.</i>
Alice Marion Rae	S. Biology	<i>Walla Walla</i>
Carrie Reynolds	A. English	<i>Walla Walla</i>
Nellie Bernice Richmond	A. History	<i>Walla Walla</i>
Primrose Rupp	A. History	<i>Walla Walla</i>
Helen Severance	A. Latin	<i>Spokane</i>
Edith Dorcas Smith	A. French	<i>Spokane</i>
Muriel Thomas	A. German	<i>Bellingham</i>
Douglas Ross Todd	A. Philosophy	<i>Ballyshannon, Ireland</i>
Ruth Sophia Waage	A. English	<i>Everett</i>
Nell Venus Wait	M. Music	<i>Walla Walla</i>
Effie Mildred Walker	S. Mathematics	<i>Waukon</i>
Elgine Jessie Warren	A. German, French	<i>Davenport</i>
Marguerite Grace Whitney	A. French, English	<i>Walla Walla</i>
Edith Wilson	S. Chemistry	<i>Spokane</i>
Myrtle Anna Witt	A. English	<i>Walla Walla</i>
Gilbert Caspar Woods	S. Biology	<i>Walla Walla</i>

FRESHMEN

Edna Mary Banister	S.	<i>Weston, Ore.</i>
Lindon Francis Barnett	A.	<i>Walla Walla</i>
Bertha Selma Baumann	A.	<i>Walla Walla</i>
Carl Spurgeon Bell	S.	<i>Walla Walla</i>
Clara Winnifred Berg	A.	<i>Walla Walla</i>
William Edward Berney	S.	<i>Walla Walla</i>
Violet Bertha Bowers		<i>Walla Walla</i>
Hazel Fern Boynton		<i>Sunnyside</i>
Scott Byron Brainard	S.	<i>Payette, Ida.</i>
Harold Peter Brown	S.	<i>Freewater, Ore.</i>
Pearl Brown		<i>Walla Walla</i>
John Greenleaf Brugger	S.	<i>Harrington</i>
Genevieve Agatha Buff	A.	<i>Walla Walla</i>
Olive May Campbell		<i>Atlanta, Ida.</i>
Clarence Lawrence Churchman	A.	<i>Pasco</i>
Carrie Elmira Clark		<i>Waitsburg</i>
Katharine Cowles Claypool		<i>Olympia</i>
Eva Frances Colwell	A.	<i>Walla Walla</i>

Horton Herschel Denny	A.	<i>Seattle</i>
Lola Celia Derr	A.	<i>Spokane</i>
Chester Paul Downen	S.	<i>Asotin</i>
John Harold Dubois	S.	<i>Spokane</i>
Ina Frances Duncan		<i>Garfield</i>
Grover Cleveland Dunlap	A.	<i>Mandan, N. D.</i>
Francis Royal Eastlake	A.	<i>Tokyo, Japan</i>
Robert Harold Gray Edmonds	A.	<i>Olympia</i>
Myrtle Evangeline Falk	A.	<i>Spokane</i>
Ruth Carolyn Fox		<i>Marysville</i>
Fulton Gilberth Gale	S.	<i>Seattle</i>
Gladys Golda Gottschalk	A.	<i>Marysville</i>
Viola May Green	A.	<i>Buhl, Ida.</i>
Margaret Ellen Harding	M.	<i>Garfield</i>
Freda May Hazer	A.	<i>North Bend, Ore.</i>
Helen Herbert	A.	<i>Tolt</i>
Lenore Maude Hewlett		<i>Sunnyside</i>
Leslie Charles Hill	A.	<i>Spokane</i>
LeRoy Horner Holderman	S.	<i>Walla Walla</i>
Frank Zaring Howard	S.	<i>Fairbanks</i>
Marguerite Angeline Hunt	A.	<i>Walla Walla</i>
Ruth Lenore Hutchinson	S.	<i>Sunnyside</i>
Edson Johnson	S.	<i>Vancouver</i>
Garrel Kinder	S.	<i>Prescott</i>
Alfred Ernest Lange	S.	<i>Walla Walla</i>
John Ambrose Level		<i>Walla Walla</i>
George Hopkins Livengood	S.	<i>Walla Walla</i>
John Richard Ludwigs	S.	<i>Walla Walla</i>
Harold William Lyman	S.	<i>Walla Walla</i>
Laura Caroline Lyman		<i>Dayton</i>
Lester Lane McDonald	A.	<i>Huntsville</i>
Charlotte May MacLeod	M.	<i>Wallace, Ida.</i>
Georgia Edith McMenus		<i>Odessa</i>
Rachel Bertha McMillan	A.	<i>Orin</i>
Douglas Ewart Martin	S.	<i>Spokane</i>
John Henry Martin	S.	<i>Walla Walla</i>
Herbert Oswald Milne		<i>Spokane</i>
Paul Ebbett Minard	S.	<i>Houlton, Me.</i>
Ernest Ralph Norling	S.	<i>Marshall</i>
Hester Smith Pettijohn		<i>Walla Walla</i>

College Register

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Genevieve Pierce	A.	Boise, Ida.
Clara Adele Poston		Cliffs
Edith Elizabeth Raley	M.	Pendleton, Ore.
Margaret Alice Rankine	M.	Olympia
Alfred Ray		Prescott
Florence Laura Richards	M.	Almira
Lyle Mernerger Richardson	S.	Bend, Ore.
Edna Rowell	A.	Spokane
Robert Colwell Shaw	A.	North Yakima
Clark Harris Slover	A.	Milton, Ore.
Edward Rowland Smith	A.	Walla Walla
Peter Jackson Smith	S.	Reardon
Ralph Waldo Snyder	S.	Spokane
May Stack	M.	Walla Walla
Drew William Standrod, Jr.	S.	Pocatello, Ida.
Harry Struthers	S.	Walla Walla
Herbert Edgar Sykes	S.	Walla Walla
Norris Sykes	S.	Walla Walla
Donald Hammond Thompson	A.	Sunnyside
Leland Keith Tooley	S.	Walla Walla
Mildred Genevieve Whaley		Chelan
Park Weed Willis, Jr.	S.	Seattle
Edgar Wilson, Jr.	A.	Boise, Ida.
Lilla Margaret Young	A.	Spokane
Bernice Revere Zimmerman	A.	Portland, Ore.
Clara Zwang	A.	Marcus

SPECIAL STUDENTS

Elnora Henrietta Campbell	Spokane
Stella Viola Campbell	Atlanta, Ida.
Elizabeth Louise Crosby	Olympia
James Chalmers Exline	Walla Walla
Ross Herschel Flaiz	College Place
Grace Harden	Walla Walla
Eugene Leonard	Pocatello, Ida.
Leah Marie Minard	Houlton, Me.
Bert Clinton Ross	Claysville, Pa.
Philo Rounds	Walla Walla
Henry Lew Wallace	Seattle
Guy Fontel Wolfkill	College Place

SUMMARY OF ENROLLMENT

Seniors	28
Juniors	44
Sophomores	57
Freshmen	84
Special Students	12
Total.....	225

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THE WHITMAN CONSERVATORY OF MUSIC

The only one of the fine arts cultivated in close connection with Whitman College is the art of music. The Conservatory building, a handsome fireproof building of brick and terra cotta, admirably appointed and equipped for instruction, private practice, and chamber music, is situated on Boyer avenue, across from the College campus, near enough to feel the benefit of the College atmosphere and to contribute to its artistic tone, but separate from it in administration, teaching force, and independent life.

Private and class instruction is given by thoroughly trained and experienced teachers of Pipe Organ, Piano, Voice, and Violin. Extended courses in Harmony, Counterpoint, Composition, Orchestration, and History of Music are offered, with special classes for students of the College. Frequent recitals are given by members of the Faculty, by advanced students, and by visiting artists. A few free scholarships are awarded on the basis of a public competition held in May.

For catalogue and information, address

THE DIRECTOR OF THE WHITMAN CONSERVATORY OF MUSIC,
Walla Walla, Washington.

SCHEDULE OF RECITATIONS, 1912-13

EXPLANATIONS—The figure after the course indicates the catalogue number of the course. The days of the week are indicated by the letters M, W, F, T, S.

FIRST SEMESTER

	8:00 to 9:00	9:00 to 10:00	10:00 to 10:15 CHAPEL	10:15 to 11:15	11:15 to 12:15	12:15 to 1:15 NOON	1:15 to 2:15
PHILOSOPHY*	Phil. 1, M. W. F.	Phil. 3, M. W. F. Phil. 5, T. Th. S.					
EDUCATION	Educ. 1, T. Th. S.						
HISTORY	History 5, T. Th. S.			History 1, T. Th. S.	History 6, T. Th. S.		
POLITICAL SCIENCE	Econ. 1, T. Th. S.	Pol. Sci. 1, T. Th. S.		Econ. 4, T. Th. S. Pol. Sci. 3, W. F. Pol. Sci. 6, T. Th. S.			
THEORY OF MUSIC					Music 3, M. Th. Music 4, T. F.		
BIBLICAL LITERATURE	Bib. Lit. 3, Th. S. Bib. Lit. 6, W. F.	Bib. Lit. 1, W. F.		Bib. Lit. 1, W. F.	Bib. Lit. 1, W. F.		
GREEK*	Greek B—T.W.F.S.			Greek 1, T. Th. S. Greek 2, F.			Greek A—M. W. Th. F.
LATIN	Latin 4, T. Th. Latin 5, W.	Latin B—T.W.Th.F.S. Latin 1, T. Th. S. Latin 3, W.		Latin A—M.T.W.Th. F.	Latin 6, T. Th. S. Latin 8, W. F.		Latin 9, T. Th. F.
ROMANCE LANGUAGES*				Spanish 10, T. Th. S. French 17, M.	French 1, T. Th. S. French 12, M. W. F.		French 3, M. W. F.
GERMAN*				German 1, M. W. F. German 12, T.	German 10, T. Th. S.		German 3, M. W. F.
ENGLISH*	Eng. 1 and 5, M. W. F. English 7, T. Th.	English 7, M.		English 7, W. F. English 15, T. Th. S.	English 12, M. W. F.		
MATHEMATICS AND ASTRONOMY	Math. 6, T. Th. Astron. 9, W. F. †Math. 10, W. F.	Math. 3, T. Th. S. Math. 5, T. Th. S. †Math. 7, W. F.			Math. 2, T. Th. S. Math. 3, T. Th. S. Math. 11, M. W. F.		
PHYSICS*				Physics 6, M.	Physics 6, M.		Physics 1, M. W. F. Physics 12, T.
CHEMISTRY	Chemistry 4, M. F. Chemistry 6, T. Th.			Chemistry 1, T. Th. Chemistry 12, S.	Chemistry 7, M. Chemistry 9, W. F.		Chemistry 1, Th. Chemistry 2, T. F. Chemistry 3, M. W.
BIOLOGY*				Biology 13, M. W. F.	Biology 13, M. W. F.		Biology 1, M. W. Biology 12, T. F.
APPLIED MATHEMATICS				Ap. Math. 1, T. Ap. Math. 2, Th. S. Ap. Math. 3, W.			
DRAWING‡		Drawing 3 T. Th. S.			Drawing 4, T. Th. S.		
PHYSICAL TRAINING	Hours will be announced at the beginning of the semester.						

SECOND SEMESTER

	8:00 to 9:00	9:00 to 10:00	CHAPEL	10:15 to 11:15	11:15 to 12:15	NOON RECESS	1:15 to 2:15
PHILOSOPHY*	Phil. 2, M. W. F.	Phil. 4, M. W. F. Phil. 5, T. Th. S.					
HISTORY	History 5, T. Th. S.			History 10, T. Th. S.	History 11, T. Th. S.		
POLITICAL SCIENCE	Econ. 2, T. Th. S.	Pol. Sci. 2, T. Th. S.		Pol. Sci. 4, W. F. Pol. Sci. 8, T. Th. S.			
THEORY OF MUSIC					Music 3, M. Th. Music 4, T. F.		
BIBLICAL LITERATURE	Bib. Lit. 3, Th. S. Bib. Lit. 6, W. F.	Bib. Lit. 2, W. F.		Bib. Lit. 2, W. F.	Bib. Lit. 2, W. F.		
GREEK*	Greek B—T.W.F.S.			Greek 1, T. Th. S. Greek 2, F.			Greek A—M. W. Th. F.
LATIN	Latin 4, T. Th. Latin 5, W.	Latin B—T.W.Th.F. S. Latin 2, T. Th. S. Latin 3, W.		Latin A—M. T. W. Th. F.	Latin 7, T. Th. S. Latin 8, W. F.		Latin 10, T. Th. F.
ROMANCE LANGUAGES*				Spanish 10, T. Th. S. French 17, M.	French 1, T. Th. S. French 12, M. W. F.		French 3, M. W. F.
GERMAN*				German 1, M. W. F. German 12, T.	German 10, T. Th. S.		German 3, M. W. F.
ENGLISH*	Eng. 1 and 5, M. W. F. Eng. 7, T. Th.	English 7, M.		English 7, W. F. English 15, T. Th. S.	English 12, M. W. F.		
MATHEMATICS AND ASTRONOMY	Math. 6, T. Th. Astron. 9, W. F. †Math. 10, W. F.	Math. 3, T. Th. S. Math. 5, T. Th. S. †Math. 7, W. F.			Math. 3, T. Th. S. Math. 4, M. T. Th. S. Math. 11, W. F.		
PHYSICS*				Physics 4, W. F. Physics 5, M. W. F.	Physics 5, M. W. F.		Physics 2, M. W. F. Physics 12, T.
CHEMISTRY	Chemistry 4, M. F. Chemistry 6, T. Th.			Chemistry 1, T. Th. Chemistry 12, S.	Chemistry 7, M. Chemistry 9, W. F.		Chemistry 1, Th. Chemistry 2, T. F. Chemistry 3, M. W.
BIOLOGY*				Biology 4, M. W. F.	Biology 4, M. W. F.		Biology 1, M. W. Biology 9, T. Th. F.
APPLIED MATHEMATICS				Ap. Math. 1, T. Ap. Math. 2, Th. S. Ap. Math. 3, W.			
DRAWING‡		Drawing 3, T. Th. S.			Drawing 4, T. Th. S.		
PHYSICAL TRAINING	Hours will be announced at the beginning of the semester.						

*Other subjects outlined in these departments are subject to arrangement after classes have been organized.

†Mathematics 8, 12, 13 or 14 may be given instead of Mathematics 7 or Mathematics 10

‡The draughting room will be open to students from 8:00 to 12:15 M. W. F. (except Chapel time) and 1:15 to 4:15 T. Th.

ed by the abbreviations M., T., W., Th., F., S.

2:15 to 3:15	3:15 to 4:15	4:15 to 5:15	7:00 to 9:00
			Phil 6, T.
	History 3, T. W. F.		
		Music 1, T. F. Music 8, M. Th.	
Lit. 4, T. Th. Lit. 5, M. W.			
Week 3, M. W. F.			
French 2, M. W. F. French 4, T. Th.	French 1, M. W. F.		
German 4, T. Th.	German 2, M. W. F.		
English 10, M. W. F.	English 8, M. W. F.		
Physics 1, M. W. F. Physics 3, T. Th.	Physics 3, M. T. Th.		
Chemistry 4, T.			
Biology 1, M. W. Biology 5, T. Th. F.			

2:15 to 3:15	3:15 to 4:15	4:15 to 5:15	7:00 to 9:00
			Phil. 7, T.
	History 4, T. W. F.		
		Music 2, T. F. Music 8, M. Th.	
Lit. 4, T. Th. Lit. 5, M. W.			
Week 3, M. W. F.			
French 2, M. W. F. French 4, T. Th.	French 1, M. W. F.		
German 4, T. Th.	German 2, M. W. F.		
English 11, M. W. F.	English 8, M. W. F.		
Physics 2, M. W. F. Physics 3, T. Th.	Physics 3, M. T. Th.		
Chemistry 4, T.			
Biology 1, M. W. Biology 9, T. Th. F.			

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